BIBLIOGRAPHY OF HOOKWORM DISEASE

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Rockefeller Foundation. International
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BIBLIOGRAPHY OF HOOKWORM DISEASE

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PREFACE

When in 1910 the newly organized Rockefeller Sanitary Commission began to assist the Southern States in measures for the control of hookworm infection, it soon became evident that a considerable amount of information on this disease was already available in the literature, which needed to be made more readily accessible. With the organization of the International Health Board in 1913 and the broadening of the program of hookworm control to include foreign countries this need became even more apparent. One of the first steps of the new Board, therefore, was to undertake the preparation of a bibliography which is now published in order to put it at the service of hygienists and all others who are interested.

Emphasis has been laid, in the compilation of the volume, on the social and economic aspects of the disease and the efforts to control it, rather than on the biology of the parasite. It is believed that the volume contains almost all of the references that can be verified in the United States. Such of the material as remains unpublished (represented by the entries preceded by asterisks) may be consulted in the library of the Rockefeller Foundation.

A large part of the literature of hookworm disease is controversial in character. This is due, as the historical introduction to the present volume points out, to the fact that discussion, centering mainly around various practical problems connected with the control of the disease, has been carried on under a great variety of difficult conditions which permitted little opportunity for the kind of scientific investigation necessary to settle the points at issue.

Tabulation of the 5,680 entries appearing in this volume indicates four peaks of activity in the production of literature on hookworm disease: the first occurs in 1882, just after the disease had wrought havoc among the workers in the Saint Gotthard tunnel; the second in 1903, when general alarm was felt over its spread in European mines; the third in 1910, when a period of scientific activity culminating in the publication of Looss's monograph in 1911 was drawing to a close; and the fourth in 1917, just before America's entry into the World War, when activity in combating the disease in many of the tropical and semi-tropical countries was at its height.

The bibliography could not have been compiled without the co-operation of many libraries. Special acknowledgment is hereby made of cordial and effective assistance rendered by the library of the Surgeon General of the United States Army, the library of the New York Academy of Medicine, the New York Public Library, and the library of the United Engineering Societies.

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INTRODUCTION

The hookworm was not discovered until 1838, but attempts have been made to trace the disease back to ancient times. Certain statements in a manuscript of 1550 B.C. are interpreted by many authorities as indicating that both the hookworm and hookworm disease were known to the ancient Egyptians. This interpretation was strongly opposed by F. von Oefele (1901), who studied the original papyrus text. Arthur Looss, the eminent authority on hookworm disease, most of whose work was done in Cairo, believes that von Oefele's views are plausible, and concludes: "It is thus only negatively probable that the ancient Egyptians should have known the Ankylostoma as a distinct animal and as the cause of a definite disease, although both the parasite and the disease were no doubt frequent in ancient times."

Through the records of ancient history run accounts of epidemics of anemia that may reasonably be suspected of having had some connection with the hookworm. Hippocrates, about 440 B.C., draws a suspicious clinical picture of a disease that caused people to eat stones and earth, brought upon them great intestinal disturbances, and, though it was not jaundice, gave people much the same color as did the latter disease. In classical literature the striking pallor of miners is frequently mentioned, appearing, for example, in the works of Lucretius and Lucan (50 B.C. and 50 A.D.). At that time it was the custom to accuse gold of giving off evil exhalations which soon turned the greedy delvers the same color as the metal they sought. No one suspected the existence of the anemia-producing hookworm.

Certain "round worms" mentioned in an Arabian manuscript by Avicenna have been identified as hookworms, and the symptoms caused by these worms, which Avicenna traced in considerable detail, are apparently those of hookworm disease. Dr. Khalil, who discusses the manuscript and translates sections of it in a recent number of the *Journal of Tropical Medicine and Hygiene*, thinks this is probably the earliest valid record of Ancylostoma and Ancylostomiasis. During the last three centuries reports have become fairly definite. Piso (1611–1678) in Brazil, Father Labat (1663–1738) in Guadeloupe, and Bryan Edwards (1743–1800) in Jamaica, all describe epidemics of a disease then known under various names, such as anemia, dropsy, intestinal disturbance, and weakness. It was particularly noticed as a cause of death among negro slaves. The symptoms coincide with those of hookworm disease. A great deal of misinterpretation has continued down to recent times, especially as regards the relation of malaria to anemia, and as to the correct cause of dirt-eating and other symptoms supposedly caused by warm climates.

Before the hookworm was finally found in man a number of related species were discovered in animals. In 1782 Goeze found some worms in the intestines of a badger (*Meles taxus*), which, on account of their hair-like shape, he called *Ascaris criniformis*, though he suspected them of belonging to a genus different from that of the ordinary Ascaris. He noted a membranous expansion of the tail of the male, with two rib-like structures in it which he called hooks. In 1789 similar worms were found in the intestines of foxes by Froelich. He also observed the membranous expansion and the so-called hooks, and therefore gave the name *Haakenwurm* ("hookworm," or *Uncinaria*) to the genus. These animal parasites were species of the hookworm, but not the same species that are harbored by man.

Discovery of the Hookworm

Of the two main species of hookworm which infest man—the *Ancylostoma duodenale* and *Necator americanus*—the former was the first to be discovered. Worms of this species were recognized in 1838 by Angelo Dubini, an Italian physician, who found them in the body of a peasant woman who had died of pneumonia in the hospital at Milan. They were encountered a second time at an autopsy in December, 1842. The latter finding led to a systematic examination of one hundred bodies, in twenty of which the parasites were discovered. In 1843 Dubini published a detailed account of the worm, to which he gave the name *Agchylostoma duodenale.* He noted the true hooks, the four hook-like teeth that stand out from the rounded mouth. Thereafter he continued to come across further specimens, which, as he remarked, were easily found if a proper search were made. The reason these common intestinal parasites had not before been found, he attributed to the imperfect manner in which earlier autopsies had been performed.

Dubini gave a description of the physical aspect of hookworms, but he did not emphasize the harm that they can do to the human system. Although he suspected that the body was not unaffected by their presence, he reported that the mucous membrane to which they attach themselves looked normal, or at worst "arborescent," and that he was unable to name any special symptoms produced by the worms. The individuals harboring the parasites had died from a variety of causes, and it seemed impossible to ascribe any one of the deaths to hookworm infection.

Von Siebold in 1845 classified the hookworm as belonging to the Strongyloidae. Soon afterward, Castiglioni described the occurrence of hookworms in the bodies of dropsical and cachectic individuals, but, like Dubini, did not realize their pathogenic importance.

Scientists elsewhere soon began to connect the parasite with certain diseases, chief among which was Egyptian chlorosis. In 1847 Pruner, while making autopsies, had found the worm in Egypt. Bilharz (1853) and Griesinger (1854) connected the parasites with the extremely prevalent chlorosis which was the cause of more than one fourth of all the deaths in that country. Griesinger was emphatic enough in his statements, but the physicians in Egypt paid little attention to him. Twenty years later most of them remembered only vaguely his work or that of Pruner and Bilharz.

But in other parts of the world the work of Griesinger had a stimulating effect. In Brazil, Wücherer in 1866 found hookworms in the bodies of patients who had died from tropical anemia, and subsequent observations by Brazilian physicians confirmed the suspicion that the parasites were responsible also for this widely prevalent disease. These and other similar studies resulted in the parasite discovered by Dubini being established in the minds of medical men as the cause of a severe anemia found almost everywhere in tropical regions.

Origin of Fecal Diagnosis

Until 1877 the hookworm had been found only at autopsy. A simple method for diagnosing hookworm infection in living beings was wanting. This was supplied as a direct result of extensive research in Italy. In a paper written in 1878 Grassi and two brothers, Ernesto and Corrado Parona, demonstrated that hookworm disease could be recognized from ova passed in the feces. From that date forward it became the custom to search for hookworm eggs in the feces of anemic patients, with the result that constantly increasing numbers of patients of this class were found to be hookworm carriers.

The Saint Gotthard Epidemic

Hookworm disease was still a comparatively unknown malady in 1880, when the Saint Gotthard tunnel was under construction. Though this tunnel was not located in Italy, the men working on it were chiefly Italians; hence, when a violent epidemic of anemia developed among them, the Italian government concerned itself with their welfare and sought and obtained from the Swiss government official information concerning the outbreak.

The first cases were recognized in February, 1880, just a year before the tunnel was completed. Hundreds of cases were soon verified, and all Italy became alarmed. There was much agitation in the press, both scientific and popular. The new method of diagnosis placed the helminthologists of northern Italy in an excellent position to demonstrate that the sufferers harbored hookworms. Of this fact there was no question, but as to whether the worms actually produced the disease there was much diversity of opinion. Some among a number of Italian physicians who went to the Saint Gotthard tunnel to investigate the malady were inclined to hold the adverse hygienic conditions responsible for the bad health of the men. The only scientist who steadily insisted on the parasitic origin of the anemia was Edoardo Perroncito, then professor of pathology at the veterinary school of the University of Turin.

Perroncito, who was present at the first postmortem examination made by Colomiatti, in which 1,500 worms were found in the body of a laborer who had died from anemia while working at the tunnel, immediately began extensive studies of the hookworm. Gradually, through tireless effort and demonstration, he won others to his views. Proof that the anemia could be cured by vermifuges that expelled the hookworms was the chief factor that converted leading Italian medical men, although in other places, especially in France, the bold conclusion that miners' anemia the world over was due to hookworms continued to find a great deal of opposition. After 1895 the quarrel died down, and eventually Manouvriez and Fabre, mining physicians of international reputation, were converted to the view that miners' anemia was due to hookworms. Thus had Perroncito succeeded in gaining general support for his original hypothesis.

Development of Vermifuges

Experiments with drugs for removing hookworms from the body had been carried on before the Saint Gotthard epidemic, but without satisfactory results. Bozzolo and Pagliani, in their report on the Saint Gotthard tunnel in 1880, confessed that "no method is known at present for killing, rendering inactive, or expelling hookworms. All known anthelmintic remedies have been tried without success." The urgent need of a vermifuge was recognized. Perroncito and Bozzolo, both members of the Turin Academy of Medicine, were prominent in the discussion, and the two became eager rivals in the search for an effective drug.

Perroncito, who had observed the enormous resistive power to most chemical agents that hookworm larvae possessed, nevertheless noted that in a one-half-of-one-per-cent solution of thymol immature larvae died immediately, while mature larvae lived only eight to ten minutes. In a well-prepared extract of male-fern (*Extractum Filicis Maris Aethereum*), mature larvae died even more quickly—in from five to ten minutes. This led to a trial of the drug, followed by Perroncito's announcement that by repeated administration of fresh extract of male-fern he had succeeded in reducing the number of hookworms harbored by two patients, though he pointed out the futility of expecting one or two doses of the drug to remove *all* hookworms from the intestine.

This announcement by Perroncito was also received with considerable scepticism. Bozzolo stated that his studies of vermifuges had yielded negative results, and that it was better to stress prophylaxis; Concato proposed giving up the idea of killing the parasite, thinking it better to stress attempts at building up the system; and Bizzozero thought the transfusion of blood into the peritoneal cavity might restore the patients' health. But in spite of the adverse comment, Perroncito's method of treatment was taken up in certain parts of Italy; cures were reported; and eventually the Italian government began to use male-fern in treatments given at government expense.

Bozzolo, in 1879, had tried thymol as a vermifuge for hookworm anemia among the brickmakers in northern Italy, but the doses used were too small to be effective. Later he increased the dose, and in 1881 announced that he had succeeded in curing six patients, some of whom could not tolerate male-fern. Lutz, in Brazil, immediately began the use of the drug, and in 1883 pronounced it preferable to male-fern. Gradually it came into favor in Italy and elsewhere, until, in an article written in 1912, Bozzolo was able to give an extended account of the success with which it had been used throughout the world.

Hookworm Disease in Mines

From the Saint Gotthard tunnel, which was completed in 1882, hookworm disease spread over Europe. The tunnelers sought work in European mines, and seemed to revive an epidemic of the malady that had existed in these mines, at intervals, for centuries. The disease became most severe in the sulphur mines of Sicily; in the gold and silver mines of Hungary; in the coal mines of Germany, Holland, Belgium, and France; in the lead mines of Spain; and in the tin mines of England.

In Germany an energetic campaign, conducted from 1903 to 1914, was attended with striking results, reducing the rate of infection, which had reached the high point of 13.1 per cent in 1903, to 0.17 per cent in 1914. Infected miners were treated, new employes who carried hookworms were excluded from underground work, sanitary conveniences were introduced;

and all of these measures were strictly enforced. As the rate of infection was reduced, the work of examining underground miners decreased, but the reverse was true of the examination of applicants for employment. The latter activity assumed such vast proportions that several million microscopic examinations were made from 1903 to 1913.

An illuminating discussion preceding the campaign produced, from 1896 to 1903, a considerable body of literature in Germany. Questions of fundamental policy were discussed; physicians took sides; the daily press became interested; and ultimately both the Prussian Diet and the Imperial Reichstag concerned themselves repeatedly with the problem. In 1903 the controversy ended with a victory for the sponsors of an extensive and thorough hygienic program.

In Belgium the methods employed were about the same as those in Germany, with the marked exception that coercion by government was replaced by co-operative effort developed through educational work among the men, about 35 per cent of whom were illiterate. In the Liége district, where the disease was most severe, the rate of infection was reduced from 22.8 per cent in 1902 to 1.2 per cent in 1913. The result was achieved chiefly through treatment, little progress being made in installing sanitary conveniences.

Prompt action on the part of the Dutch government, before the disease had become severe in the mines of that country, permitted the campaign to be largely prophylactic, mild, and comparatively inexpensive, instead of curative, drastic, and expensive, as in Germany and Belgium. Results were secured by co-operative effort in which the mine-owners splendidly performed their part. The rate of infection was reduced from 25.1 per cent in 1904 to 0.3 per cent in 1913.

Interest in France was aroused by alarming reports concerning the spread of hookworm disease in the mines of Belgium and Germany. An invasion was feared. A survey made in 1904 disclosed a varying amount of infection in the mine districts, but the situation was considered by no means alarming. In 1911 certain sanitary laws were passed and treatment was provided at the expense of the mining companies, with compensation for time lost from labor. No systematic campaign was conducted.

In Italy the workers in the Sicilian sulphur mines bore the brunt of the disease. It was discovered here as early as 1882. A survey in 1898 revealed an infection of about 50 per cent, but no campaign was undertaken. Another investigation in 1912 indicated that conditions had grown worse rather than better. In 1914 an experimental campaign was begun in two Sicilian mines and a considerable reduction in infection was brought about, chiefly by means of treatment. Some work was also done in a small sulphur-mining center in the Romagna, on the Italian mainland, where a campaign of disinfection and treatment is said to have decreased the incidence of the disease from 38.2 per cent in 1908 to 0.3 per cent in 1914.

Conditions in Austria were not favorable for the development of the parasite, owing largely to the dryness of the mines. English mines, too, were for the most part exempt, except the tin mines in Cornwall and Devon, where sporadic work in examining the men was undertaken and some sanitary reforms were introduced, though the infection was never serious enough to call for drastic action.

At present Hungary and Spain are centers of the most severe mine infection in Europe. Certain Hungarian mining sections whch have been infected for centuries are still a standing menace, although in one section (Brennberg) heroic efforts have been made to stamp out the disease. In Spain very little has been done. The rate of infection appears to be highest in the lead mines of Linares, where it ranges from 50 to 90 per cent and where conditions are in every way favorable for the further spread of the disease.

The infection in a mild form is also found among the non-mining population of certain European countries. Thus, it has been discovered among brickmakers in Holland and Germany, and cases from tropical countries are occasionally imported into England. But the climate of the northern European countries is too cold for the hookworm to propagate extensively on the surface. Except underground, widespread infection is present only in Italy and perhaps in certain sections of southern Russia and the Balkan states. In Italy it is found on the surface in brick-yards, truck farms, and rice-fields, and in general among people whose work brings them into contact with the soil. Except for thorough discussion and an attempt to get the state to manufacture thymol, little has been done in Italy to control the disease, although the harm it works to agricultural interests has been repeatedly pointed out.

Discovery of Dermal Infection

Many conflicting views were originally held as to the process by which human beings acquired the infection. One of the earliest was the belief that hookworm larvae might be transported by air currents or in dust. Experiments made by von Schopf in Hungary about 1888 apparently confirmed this view, which arose indirectly from Perroncito's erroneous theory that desiccated mature hookworm larvae revived if placed in a moist medium, and was not finally overthrown until a great deal of controversial matter had been published.

The part played by animals, especially the horse, in the distribution of hookworm disease, also gave rise to discussion, and in some of the mines of Hungary horse-haulage was discontinued. Increased experimentation has, however, made it seem extremely unlikely that any domestic animals are carriers of either *Ancylostoma duodenale* or *Necator americanus*. The species of hookworms found in domestic animals differ from the human hookworms and, with the single exception of *Ancylostoma ceylanicum*, which is parasitic to the dog and has been found in small numbers in East Indians, they do not inhabit the human body.

It was at first thought that the worms could enter the body only by way of the mouth, being acquired in the main from contaminated food. That this mode of entry was possible was shown provisionally by Leuckart in 1866 and proved experimentally by Leichtenstern in 1887. But in 1898 Arthur Looss, professor of parasitology at the government medical school at Cairo, accidentally discovered that a hookworm culture spilled on his hands produced dermatitis. Later, when he found hookworm ova in his feces, he concluded that he had been infected through the skin. In succeeding years he proved experimentally his theory of dermal infection, according to which hookworms in their larval stage may enter the human body through the skin—at any place, but preferably between the toes, or wherever else the skin is tender. His communications on the subject aroused a great deal of criticism, but in the end his views not only as to the acquisition of infection through the skin but also concerning the intricate migratory path of the hookworm larva after it enters the human body were established in every detail.

This discovery revolutionized methods of control. Measures were henceforth directed toward avoiding contact between the bare skin and infected mud or water. Warnings against going barefoot and against leaky or wet shoes superseded those against contaminated food. All writers now agreed that the most common and only important mode of infection was by way of the skin.

Close of a Period

The period of research and investigation which opened so brilliantly with the discoveries at the Saint Gotthard tunnel, culminated in 1911 in the publication of Looss's monograph on the hookworm, in which all the scientific knowledge of the parasite then available was carefully summarized and much new light shed on its life-cycle and anatomy. During the period following the construction of the Saint Gotthard tunnel—that is, from about 1880 to 1898—according to Zinn and Jacoby, who collected the literature, some 500 papers appeared on the hookworm, on hookworm infection, and on hookworm control; by 1905, about 250 other papers had been added; and in 1911, after an uninterrupted stream of magazine articles and studies had borne witness to the sustained interest in the subject, Looss's monumental volume was published.

The main facts about the life of the hookworm were now clear. Successful experimental campaigns against the disease had been undertaken in the mines of several European countries, and the danger of a new occupational disease that had threatened to cripple the mining industry had been averted. Thymol and male-fern were accepted as established remedies. The time was now ripe for an incursion into the stronghold of the parasite, the tropical and semi-tropical lands where it thrives and does its greatest damage. But some years before this the principal scene of activity had shifted to America, where effective machinery for carrying the fight into the tropics had been developed and tested.

Discovery of the Necator Americanus

In 1808 Joseph Pitt, in an article on dirt-eating and anemia among the lower-class negro and white population of the South, ascribed the symptoms to deficiency in nourishment. Thereafter periodic discussions occurred, but apparently none of the writers suspected that they were dealing with a disease that was both widespread and communicable. Few of the descriptions gave anything like an adequate picture of the symptoms. The disease was regarded with grave concern chiefly because of the mortality it produced among the slaves. Thus, one of the best of the early accounts, printed in 1820 by James Thomson, describes the havoc it wrought among slaves in Jamaica.

But it was not until 1893 that Blickhahn, of St. Louis, reported what appears to have been the first case recognized as hookworm disease in the United States. The infection was probably caused by *Ancylostoma duodenale*, as the patient was a brickmaker from Westphalia. Soon other endemic as well as imported cases were noted, chiefly in Texas; and from 1896 on, an increasing number of cases were reported from various parts of the country. Close study revealed that they were caused by a heretofore undescribed species of hookworm.

On May 10, 1902, Dr. Charles Wardell Stiles, zoologist, of the United States Bureau of Animal Industry, described the new species of hookworm and named it the *Uncinaria americana*, or *Necator americanus* (Stiles). The worms had been noted before—for example, by Lutz in Brazil in 1888—but Stiles was the first to recognize that they were of a distinct species. His work, though based in part on a study of specimens sent from Porto Rico by Ashford, was also greatly aided by a case described by Allen J. Smith in 1901 and another by T. A. Claytor in the same year. About the same time Claude A. Smith and H. F. Harris were reporting cases from Georgia, and a little later Harris surmised that much of the anemia in certain southern states was due, not to malaria, as had been previously thought, but to hookworm disease. Stiles's work left no longer any doubt that there were extensive areas in the United States in which existed severe hookworm disease produced by the new type of worms.

It was also shown that the newly discovered American hookworm was being carried to Europe, chiefly through seasonal immigration. Thus, when Italian workmen returned to Italy after working a part of the year on Brazilian coffee plantations, they took back with them worms of the new-world variety, with the result that most of the infection in Italy, outside of the mines, was caused by worms of the American species. (In this connection it may be interesting to note that these worms, although called "the American hookworm" from the name *Necator americanus* and from the fact that they were first described in America, are in reality as much an old-world hookworm as the *Ancylostoma duodenale.* Their original habitat was probably Africa, whence they were doubtless carried to the New World by the importation of negro slaves.)

A very gradual awakening to the importance of hookworm disease in the United States followed the 1902 discoveries. Meanwhile, important work was going forward in Porto Rico. For years preceding the occupation of this island by the United States, the extremely prevalent and fatal anemia had been much discussed, but it was not until 1899, the year following the American occupation, that Dr. Bailey K. Ashford, of the United States Army, correctly ascribed the hookworm as the cause of this anemia. Dr. Ashford was then in charge of a large field hospital sheltering the victims of the cyclone that occurred in August of that year. He carefully studied some of the patients, and gave a detailed and accurate description of the disease, in which he stressed its economic aspect. In 1902, after a study of the literature in the Surgeon General's library, Ashford returned to Porto Rico and, with Walter W. King, of the United States Public Health and Marine Hospital Service, undertook a complete investigation of 100 cases. In an article resulting from this study he announced that in his opinion over 30 per cent of the deaths in Porto Rico were due to this anemia, and lodged an earnest appeal for a campaign against it.

In 1904 the legislature of Porto Rico appropriated $5,000 for the study and treatment of anemia, and Doctors Ashford, King, and Guiteras were made members of a commission to have charge of the campaign, the services of the two first-named physicians being contributed by the United States War and Treasury departments, respectively. Since then the work of combating hookworm disease in this island has gone steadily forward in spite of difficulties, with responsibility being gradually transferred to the local authorities. Soon after the Porto Rican campaign got under way, preparations began to be made for coping with the same problem in the United States.

The Campaign Against Hookworm in the United States

The period between 1910 and 1913 was marked by the entrance of various state boards of health into the fight. These were assisted in their work by voluntary health organizations, one of the first of which was the Rockefeller Sanitary Commission, established in 1909 for the purpose of combating hookworm disease. In 1915 the work of this organization was merged with that of the International Health Board—one of the agencies through which the Rockefeller Foundation, founded in 1913, carries on its work. Much of the effort of this Board has been directed toward promoting measures for the control of hookworm disease.

Concerted efforts against hookworm disease in the United States were started by sanitary and infection surveys in eleven southern states, followed by a campaign of cure and prevention. The infection survey, covering chiefly rural children between six and eighteen years of age, confirmed the presence of hookworm disease in every one of the 700 counties investigated, and indicated that soil pollution was chiefly responsible for the evil. The surveys demonstrated to the country at large, as well as to the Southern States, that hookworm disease was a reality and a serious menace to health and prosperity. Aroused to the importance of this hitherto neglected disease, many Southern physicians published papers on it, and the state boards issued bulletins. This attitude was in marked contrast to that of 1910, when newspapers were fond of regaling their readers with discussions in which the infection was referred to in such terms as "the lazy germ," "the hookworm theory," "the fad," "the myth," and "the conception of ingenious minds for the injury of the South." At that time many denied the presence of the disease in the South, and some professed not to believe in its existence anywhere. Few newspapers could be said to be friendly, or willing to co-operate in the efforts to stamp out the infection. But as knowledge advanced and progress was made in locating infected persons, the papers changed their attitude one by one and began to publish more serious references to the disease. Eventually they became warm supporters of the health workers in the task of educating the public. By 1914 they had been completely won over, and, realizing now the importance of the disease, were glad to give their whole-hearted support to the campaign against it.

Medical schools in several states also began to provide instruction in the diagnosis and treatment of intestinal parasites as a requirement for graduation, Tulane University, in particular, adopting a high standard of instruction in the subject. The effort to impress upon school children the relationship between clean soil and good health, as part of the regular instruction in public schools, also met with success, the educational departments of states and counties becoming strong allies in promoting the cause of sanitation. The United States Public Health Service interested itself extensively in the technical side of hookworm control, and under the direction of Dr. Charles Wardell Stiles conducted much valuable research work and many special surveys; while in the state of California, also, a variety of agencies, including the State Board of Health and the United States Bureau of Mines, did much important work on hookworm disease in mines.

The field work undertaken for the relief and control of the disease centered at first in the free traveling dispensary, where examination and treatment were given to all who applied. These dispensaries, visiting at weekly intervals various convenient points throughout the counties, paved the way for a more intensive type of organization which subsequently, by house-to-house canvass, carried the work into every corner of selected communities. It was found that by confining attention to a small rural community of 500 or 600 people, a medical field director with trained assistants could treat within a short time practically every infected person and could also secure a great reduction in soil pollution. As the work expanded it became possible by 1916 to cover an entire county in approximately one year, using a working force of standard size, consisting of the medical field director and three to five health inspectors.

The work of combating hookworm disease in a given territory involved mapping the district, taking a census of the population, numbering the houses, making microscopic examination of fecal specimens for the entire population, treating those found infected, and continuing microscopic examination until cure was effected. Coincidently with examination and treatment of the people the attempt was made to secure the installation and use of latrines at all the homes.

Much emphasis was placed on the use of properly constructed latrines as a means of protection against typhoid fever and dysentery as well as against hookworm disease. The scientific aspects of the latrine problem also received attention, many sanitarians studying the relative efficiency of various types of latrines as a means of preventing hookworm and the other soil-borne intestinal infections. Various approved types of latrines were worked out and put into use, the exact type recommended being determined in each case by the local department of health.

Extension of Hookworm Work to Many Parts of the World

The activities in the southern part of the United States led to the extension of hookworm control effort to other countries under much the same plan of operations. As the result of a cordial invitation in 1913 from the British colonial authorities to the International Health Board, co-operative campaigns were undertaken in British Guiana, Antigua, Trinidad, St. Lucia, Grenada, and Egypt. In Panama, Nicaragua, Costa Rica, Salvador, and Guatemala work was also subsequently undertaken on government invitation. This extension of control activities served in turn to stimulate investigation by such central bodies as the London School of Tropical Medicine and the Institut für Schiffs- und Tropenkrankheiten zu Hamburg, not to mention the excellent work done quite independently on various estates in the Dutch East Indies.

By 1915 the hookworm work of the International Health Board had been extended to ten Southern States and thirteen foreign countries, and by 1916 to the same number of states and fifteen foreign countries. Although in certain countries active work was later discontinued on account of the war, it was in most cases resumed soon after the close of the war, so that at the end of 1921 effort was going forward in forty-one states and countries, including Jamaica, Porto Rico, St. Lucia, Trinidad, Costa Rica, Guatemala, Nicaragua, Panama, Salvador, Brazil, Colombia, Dutch Guiana, Australia, late German New Guinea, Papua, British North Borneo, Ceylon, India, and Siam. Nearly 4,000,000 people had been examined for hookworm disease in these various regions, including the Southern States, and over 2,000,000 had been found infected and treated, with the result that they were either greatly benefited or entirely cured. About one-third of the cases dealt with were in the Southern States; of the others the bulk were inhabitants of the West Indies, Central or South America, and the East.

In practically all the countries sanitary regulations have been enacted and a distinct impulse has been given to prophylaxis, especially along educational lines leading to the prevention of soil pollution; the medical profession and public-spirited laymen have become interested; and the effort to treat the people for the parasites has served in turn to give a distinct stimulus to scientific investigation of the disease as well as to the organization of permanent health departments.

Efforts to Discover the Ideal Anthelmintic

Although other remedies for the treatment of hookworm disease—among them beta-naphthol, chloroform, and eucalyptus—had been tried at various times and places, thymol continued the drug of choice until 1917. However, the successful use of oil of chenopodium by Schüffner and Vervoort in Sumatra, beginning in 1900, indicated that this drug might prove at least as efficacious as thymol and might indeed possess some advantages that the latter remedy lacked. Comparative tests of the two drugs—begun in 1915 under both hospital and field conditions by the Uncinariasis Commission to the Orient, and later substantiated under strictly field conditions in Brazil and elsewhere—showed that oil of chenopodium in the maximum safe dose was slightly more powerful than thymol, while at the same time it was cheaper, easier to administer, and, in the minds of the patients, less unpleasant to take.

After these early experiments the drug sprang into widespread favor, and for the most part the results reported from its use were excellent. But it was soon found that the oil was subject to variations in strength and toxicity, so that during the past few years many investigators have been seeking not only to develop a better pharmacopeial standard for the chenopodium, but to test as well the advantages and disadvantages of certain other newer remedies.

Greater Refinement in Methods of Diagnosis

By the previously described method of diagnosing hookworm disease—that of searching with the microscope for hookworm eggs in the feces—the eggs are not immediately apparent unless the infection is heavy. A great many refinements in the technique have therefore been made, not only to render diagnosis more accurate but also more expeditious. One such device is the centrifuge, which serves to bring about a greater concentration of eggs in the microscopic field.

Another process consists of adding to the specimen of feces, solutions of chemicals, such as salt brine, having a specific gravity considerably greater than that of the fecal preparation. The addition of various briny liquids causes the eggs to rise to the surface, where they may be examined without removal, or may be first removed and then examined. Other methods cause the eggs to sink, so that they may be collected from the sediment. These newer techniques, depending, as the case may be, upon flotation or sedimentation, are known by various names, such as the Lane levitation, the glycerin-salt, and the brine-flotation-loop method.

Mass Treatment of Heavily Infected Population

Of late years, in certain heavily infected tropical countries, it has become customary to dispense altogether with preliminary fecal examination. In such regions practically every person is known to be infected, and the people are treated *en masse* without preliminary diagnosis. The plan was first tried on some of the estates in Java and elsewhere in the Dutch East Indies, and was later put to extensive use in Ceylon and Siam. It has also been used to a limited extent in Brazil. One of the reasons for its adoption lies in the fact that it is coming to be recognized that in hookworm control the essential thing is not so much to aim at the absolute cure of every infected person in the community, as it is quickly to remove the largest possible number of worms from the largest possible number of persons, and thus lower the severity of infection.

Life of Hookworm Larvae

During the early years of anti-hookworm activity in Europe, attention centered on finding a disinfectant that would kill the parasite in its free or larval stage. It was thought that thorough disinfection of soil was the indicated method of control, inasmuch as the worms could not multiply within the human body, each worm having to make its way in separately from the outside. Unfortunately, however, the larva at its infective stage is extremely resistant to most of the ordinary chemicals, and the effort to find an effective disinfectant cheap enough for extensive use has thus far been unsuccessful. Even in such comparatively limited areas as were dealt with in the European campaigns, the idea of disinfection had to be abandoned. Nevertheless, even though in the main attention is now settled on other methods of control, such as the encouragement of latrine building, proper waste disposal, and the treatment of infected persons, investigations to determine the effect of chemicals on the larvae are still in progress; and in comparatively small or isolated "nests" of infection, as well as occasionally in latrines, limited use is being made of the principle of disinfection.

The question whether the digestive juices of animals will destroy ingested human hookworm larvae has also come up, with the result that in recent years some of the early theories on this point have been refuted. Scientific work has also been done to determine the rôle of domestic animals in the spread of the infection. Although not carriers of the human hookworm, many of these animals, such as pigs and chickens, which act as scavengers, may pass the infective larvae unharmed through their intestines, or carry them on their feet, and thus aid in their spread.

Both these questions are part of the larger problem of determining precisely what factors influence the life of hookworm larvae in the soil. It is known in a general way that air, warmth, and moisture are necessary for hatching hookworm eggs, and that desiccation and cold are two of the chief hindrances to the development of the eggs into dangerous, infective larvae. Progress in the investigation of this phase of the subject has recently been made possible by the development of improved methods for recovering the larvae from the soil. A specimen of infected soil can now be taken from any place and its larval content determined with considerable accuracy, which makes possible a study of hookworm larvae in their natural habitat instead of merely in the laboratory. These and other scientific activities at present under way give promise of throwing considerable light on the points that remain in doubt.

EXPLANATORY NOTES

An asterisk preceding an entry denotes an unpublished manuscript in the library of the Rockefeller Foundation.

The list of abbreviations of titles of periodicals follows, with few exceptions, the usage of the library of the Surgeon General of the United States Army.

The spelling of "ancylostoma" is based on the decision of the International Commission on Zoological Nomenclature.

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Appendices to report for 1920 as follow:—

Apx A, B, incorporated in the report.

Apx C, Examination of the children of the primary schools of Panama city by Dr. F. C. Caldwell. 1921. 7p.

Apx D, Constructive analysis of a four years' campaign against the hookworm disease in Panama by Dr. F. C. Caldwell. 1921. 35p. tab.

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1819 *Rockefeller Foundation. *International health board.* Reports on work for the relief and control of hookworm disease in Queensland, from April 1918 to December 1919 [compiled from data furnished by Drs. J. H. Waite and W. A. Sawyer] illus. maps.

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Laws and regulations

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5643 DUTCH GUIANA. Extract from ordinance of Nov. 29, 1915, containing police-regulations [in regard to committing nuisance] n. p. 1915. 2p.

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5644 EGYPT. *Ministère de l'intérieur.* Décret relatif aux latrines des mosquées et des bains publics. Cairo, Imp. nat. 1903. 4p.

Text in French and Arabic.

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Same in *Trop. Dis. Bull.* Lond. 1917, ix: 140.

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State privy law p. 6–8.

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Compiled from various sources.

5669 SEYCHELLES. Ordinance to compel latrines to be erected on all premises used for habitation in the colony. Victoria, Govt print. off. 1917. 3p. (no. 9 of 1917)
Summarized in *Trop. Dis. Bull.* Lond. 1917, x: 353.

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Schools

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Hookworm disease p. 363.

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ABBREVIATIONS OF TITLES OF PERIODICALS

Abeille méd., Par.	Abeille médicale. Paris
Actas y trab. d. Cong. méd. ecuatoriano, Guayaquil	Actas y trabajos del Congreso médico ecuatoriano. Guayaquil
Alabama M. J., Birmingham	Alabama Medical Journal. Birmingham
Alabama M. & S. Age, Birmingham	Alabama Medical and Surgical Age. Birmingham
Albany M. Ann.	Albany Medical Annals, Albany
Alienist & Neurol., St Louis	Alienist and Neurologist. St Louis
Alkaloid. Clin., Chic.	Alkaloidal Clinic. Chicago
Allg. med. Centr.-Ztg, Berl.	Allgemeine medicinische Central-Zeitung. Berlin
Allg. Wien. med. Ztg	Allgemeine Wiener medicinische Zeitung. Wien
Am. Chem. J., Balt.	American Chemical Journal. Baltimore
Am. Ency. & Dict. of Ophthal., Chic.	American Encyclopædia & Dictionary of Ophthalmology. Chicago
Am. Health, N. Haven & N. Y.	American Health. New Haven & New York
Am. J. Clin. M., Chic.	American Journal of Clinical Medicine. Chicago
Am. J. Dis. Child., Chic.	American Journal of Diseases of Children. Chicago
Am. J. M. Sc., Phil.	American Journal of the Medical Sciences. Philadelphia
Am. J. Obst., N. Y.	American Journal of Obstetrics and Diseases of Women and Children. New York
Am. J. Ophth., St. Louis	American Journal of Ophthalmology. St Louis
Am. J. Otol.	American Journal of Otology. New York; St Louis
Am. J. Physiol., Bost.	American Journal of Physiology. Boston
Am. J. Pub. Health	American Journal of Public Health. New York; Boston; Chicago
Am. J. Trop. Dis. (etc.) N. Orl.	American Journal of Tropical Diseases and Preventive Medicine. New Orleans
Am. M. J., St Louis	American Medical Journal. St Louis
Am. M. Rev., N. Y.	American Medical Review. New York
Am. Med.	American Medicine. Philadelphia; Burlington (Vt); New York
Am. Pract. & News, Louisville	American Practitioner and News. Louisville (Ky)
Amazonas med., Manáos	Amazonas medico. Manáos
Amtsarzt, Leipz. & Wien	Amtsarzt. Leipzig & Wien
An. d. Círc. méd. argent., Buenos Aires	Anales del Círculo médico argentino. Buenos Aires
An. del hosp. de San José, Costa Rica	Anales del hospital de San José. Costa Rica
An. r. Acad. de med., Madrid	Anales de la real Academia de medicina, Madrid.
An. Rept Sur. Gen. U. S. Army, Wash.	Annual Report of the Surgeon General United States Army. Washington
An. Univ. centr. de Venezuela, Carácas	Anales de la Universidad central de Venezuela. Carácas
Ann. d. Accad. di agric. di Torino	Annali dell' Accademia di agricoltura di Torino. Torino
Ann. Am. Acad. Pol. & Soc. Sc., Phil.	Annals of the American Academy of Political and Social Science. Philadelphia
Ann. et bull. Soc. de méd. de Gand	Annales et bulletin de la Société de médecine de Gand. Gand
Ann. di chim. e di farm.	Annali di chimica e di farmacologia. Bologna; Milano

Ann. d. Fac. di med., Perugia	Annali della Facoltà di medicina, Università di Perugia. Perugia
Ann. d'hyg., Par.	Annales d'hygiène publique et de médecine légale. Paris
Ann. d'hyg. et de méd. colon., Par.	Annales d'hygiène et de médecine coloniales. Paris
Ann. d'ig., Roma	Annali d'igiene, pubblicazione mensile. Roma
Ann. d'ig. sper., Roma	Annali d'igiene sperimentale. Roma
Ann. de l'Inst. Pasteur, Par.	Annales de l'Institut Pasteur. Paris
Ann. di Ippocrate, Milano	Annali di Ippocrate. Milano
Ann. d. Ist. Maragliano p. la cura d. tuberc. (etc.) Genova	Annali dell' Istituto Maragliano per lo studio e la cura della tuberculosi (etc.) Genova
Ann. di med. nav., Roma	Annali di medicina navale e coloniale. Roma
Ann. d. mines: pte administrative . . . lois, décrets, etc., Par.	Annales des mines: partie administrative ou Recueil des lois, décrets. Paris
Ann. d. mines: ou Recueil des mém., Par.	Annales des mines: ou Recueil des mémoires. Paris
Ann. d. mines de Belg., Brux.	Annales des mines de Belgique. Bruxelles
Ann. Museo civ. d. Genova	Annales Museo civico di Genova. Genova
Ann. d'ocul.	Annales d'oculistique. Bruxelles; Paris
Ann. di ostet.	Annali di ostetricia e ginecologia. Milano; Firenze
Ann. d. ottal.	Annali di ottalmologia. Milano; Pavia
Ann. paulist. de med. e cirurg., S. Paulo	Annaes paulistas de medicina e cirurgia. São Paulo
Ann. Soc. de méd. d'Anvers	Annales et bulletin de la Société de médecine d'Anvers. Anvers
Ann. Soc. de méd. de Gand	Annales de la Société de médecine de Gand. Gand
Ann. Soc. de méd. de St-Étienne et de la Loire, St-Étienne	Annales de la Société de médecine de St-Étienne et de la Loire. St-Étienne
Ann. Soc. méd.-chir. d'Anvers	Annales de la Société médico-chirurgicale d'Anvers. Anvers
Ann. Soc. méd.-chir. de Liége	Annales de la Société médico-chirurgicale de Liége. Liége
Ann. Soc. oy. d. sc. méd. et nat. de Brux.	Annales de la Société royale des sciences médicales et naturelles de Bruxelles. Bruxelles
Ann. d. travaux pub. de Belg., Brux.	Annales des travaux publics de Belgique. Bruxelles
Ann. Trop. M. & Parasitol., Liverp.	Annals of Tropical Medicine and Parasitology. Liverpool
Ann. d. Univ. libera di Perugia	Annali dell' Università libera di Perugia. Perugia
Ann. univ. di med. e chir., Milano	Annali universale di medicina e chirurgia. Milano
Annuario d. sc. med., Milano	Annuario delle scienze medica. Milano
Antiseptic, Edinb. & Madras	Antiseptic. Edinburgh & Madras
Arb. a. d. k. Gsndhtsamte, Berl.	Arbeiten aus dem kaiserlichen Gesundheitsamte. Berlin
Arch. f. Anat. u. Physiol., Leipz.	Archiv für Anatomie und Physiologie. Leipzig
Arch. f. Augenh., Wiesb.	Archiv für Augenheilkunde. Wiesbaden
Arch. de biol.	Archives de biologie. Gand; Liége & Paris
Arch. brasil. de med., Rio de Jan.	Archivos brasileiros de medicina. Rio de Janeiro
Arch. brasil. de psychiat. (etc.) Rio de Jan.	Archivos brasileiros de psychiatria, neurologia e sciencias affins. Rio de Janeiro
Arch. f. Chem. u. Meteorol., Nürmbg	Archiv für Chemie und Meteorologie. Nürmberg
Arch. Diagn., N. Y.	Archives of Diagnosis. New York
Arch. f. exper. Path. u. Pharmakol., Leipz.	Archiv für experimentelle Pathologie und Pharmakologie. Leipzig

Arch. di farmacol. sper., Roma	Archivio de farmacologia sperimentale e science affini. Roma
Arch. gén. de méd., Par.	Archives générales de médecine. Paris
Arch. d. Heilk., Leipz.	Archiv der Heilkunde. Leipzig
Arch. de hig. e path. exotic., Lisb.	Archivos de higiene e pathologia exoticas. Lisboa
Arch. de l'Inst. Pasteur, Tunis	Archives de l'Institute Pasteur de Tunis. Tunis
Arch. Int. Med., Chic.	Archives of Internal Medicine. Chicago
Arch. internat. de pharmacod., Gand et Par.	Archives internationales de pharmacodynamie. Gand et Paris
Arch. ital. de biol.	Archives italiennes de biologie. Rome; Turin et Florence; Pise
Arch. ital. di clin. med., Milano	Archivio italiano di clinica medica. Milano
Arch. f. Kinderh., Stuttg.	Archiv für Kinderheilkunde. Stuttgart
Arch. latino-am. de pediat., Buenos Aires	Archivos latino-americanos de pediatria. Buenos Aires
Arch. d. mal. du cœur (etc.) Par.	Archives des maladies du cœur, des vaisseaux et du sang. Paris
Arch. méd. belges, Brux.	Archives médicales belges. Bruxelles
Arch. de méd. d. enf., Par.	Archives de médecine des enfants. Paris
Arch. de méd. expér. et d'anat. path., Par.	Archives de médecine expérimentale et d'anatomie pathologique. Paris
Arch. de méd. nav., Par.	Archives de médecine navale. Paris
Arch. de méd. et pharm. mil., Par.	Archives de médecine et de pharmacie militaires. Paris
Arch. de méd. et pharm. nav., Par.	Archives de médecine et de pharmacie navales Paris
Arch. f. Naturgesch., Berl.	Archiv für Naturgeschichte. Berlin
Arch. di ostet e ginec., Napoli	Archivio di ostetricia e ginecologia. Napoli
Arch. paran. de med., Curityba	Archivos paranaenses de medicina. Curityba
Arch. de parasitol., Par.	Archives de parasitologie. Paris
Arch. Pediat.	Archives of Pediatrics. Jersey City (N J.); Philadelphia; New York
Arch. f. Physiol., Leipz.	Archiv für Physiologie. Leipzig
Arch. f. Physiol. u. Heilk., Stuttg.	Archiv für Physiologie und Heilkunde. Stuttgart
Arch. Pub. Health Lab., Univ. Manchester	Archives of the Public Health Laboratory, University of Manchester (England). Manchester
Arch. d. sc. biol (etc.) St-Pétersb.	Archives de sciences biologiques publiées par l'Institut impérial de médecine expérimentale à St-Pétersbourg. St Petersbourg
Arch. per le sc. med., Torino	Archivio per le scienze mediche. Torino
Arch. d. sc. phy. et nat., Genève	Archives des sciences physiques et naturelles. Genève
Arch. f. Schiffs- u. Tropen-Hyg., Leipz.	Archiv für Schiffs- und Tropen-Hygiene, unter besonderer Berucksichtigung der Pathologie und Therapie. Leipzig
Arch. slaves de biol., Par.	Archives slaves de biologie. Paris
Arch. de la Soc. estud. clín. de la Habaña	Archivos de la Sociedad de estudios clínicos de la Habaña. Habana
Arch f. Verdauungskr., Berl.	Archiv für Verdauungs-Krankheiten mit Einschluss der Stoffwechselpathologie und der Diätetik. Berlin
Arch. vét. d'Alfort	Archives vétérinaires d'Alfort. Alfort
Arq. de hig. e pat. exotic., Lisb.	Arquivos de higiene e patologia exoticas. Lisboa
Arte med., Napoli	Arte medica. Napoli
Arte ostet., Milano	Arte ostetrica. Milano
Atlanta Jour.-Rec. Med.	Atlanta Journal-Record of Medicine. Atlanta

Atti d. Accad. fis.- med.-statist. di Milano	Atti della Accademia fisio-medico-statistica di Milano. Milano
Atti d. Accad. Gioenia di sc. nat. in Catania	Atti della Accademia Gioenia di scienze naturali in Catania. Catania
Atti d. Accad. d. sc. med. e nat. in Ferrara	Atti della Accademia delle scienze mediche e naturali in Ferrara. Ferrara
Atti d. Accad. di Udine	Atti della Accademia di Udine. Udine
Atti d. Cong. d. Ass. med. ital., Modena	Atti del Congresso della Associazione medica italiani. Modena
Atti d. Cong. naz. per le malattie d. lavoro	Atti del Congresso nazionale per le malattie del lavoro (Various places)
Atti d. Cong. pellagrol. ital., Udine	Atti del Congresso pellagrologico italiano. Udine
Atti d. r. Accad. dei Lincei: Mem., classe d. sc. fis., mat. e nat., Roma	Atti della reale Accademia dei Lincei: Memorie delle classe di scienze fisiche, matematiche e naturali. Roma
Atti d. r. Accad. dei Lincei: Rendic., Roma	Atti della reale Accademia dei Lincei: Rendiconti. Roma
Atti d. r. Accad. dei Lincei: Trans., Roma	Atti della reale Accademia dei Lincei: Transunti. Roma
Atti d. r. Accad. di Peloritana, Messina	Atti della reale Accademia di Peloritana. Messina
Atti d. r. Ist. d'incorrag. a. sc. nat. . . . di Napoli	Atti del reale Istituto d'incorraggiamento alle science naturali, economiche e tecnologiche di Napoli. Napoli
Atti d. r. Ist. Veneto di sc., lett. ed arti	Atti del reale Istituto Veneto di scienze, lettere ed arti. Venezia
Atti d. riunione d'igienisti ital., Bologna	Atti del riunione d'igienisti italiana. Bologna
Atti d. Soc. ital. di ostet. e ginec.	Atti della Società italiana di ostetricia e ginecologia. (Various places)
Atti d. Soc. ital. di sc. nat., Milano	Atti della Società italiana di scienze naturali. Milano
Atti Soc. tosc. di sc. nat: Proc. verb., Pisa	Atti della Società toscana di scienze naturali: Processi verbali. Pisa
Austral. M. J., Melbourne	Australian Medical Journal. Melbourne
Australas. M. Gaz., Sydney	Australasian Medical Gazette. Sydney
Auto-riassunti e riv. d. lav. ital. di med. int., Torino	Auto-riassunti e rivista dei lavori italiani di medicina interna ed argomenti prossimiori. Torino
Avvenire di Sardegna: gior: polit., Cagliari	L'Avvenire di Sardegna: giornale politico: Cagliari
Beihefte z. Arch. f. Schiffs-u. Tropenhyg., Leipz.	Beihefte zum Archiv für Schiffs-und Tropenhygiene. Leipzig
Belgium. Administration du serv. de santé [etc.] Bull. du serv. de santé, Brux.	Belgium. Administration du service de santé, de l'hygiène publique et de la voirie communale. Bulletin du service de santé et de l'hygiène publique. Bruxelles
Berg-u. hüttenmänn. Jahrb., Wien	Berg-und hüttenmännische Jahrbuch. Wien
Berg-u. hüttenmänn. Ztg, Leipz.	Berg-und hüttenmännische Zeitung. Leipzig
Berl. klin. Wchnschr.	Berliner klinische Wochenschrift. Berlin
Berl. Klinik	Berliner Klinik. Berlin
Biochem. Ztschr., Berl.	Biochemische Zeitschrift. Berlin
Biol. Centralbl.	Biologisches Centralblatt. Erlangen; Leipzig
Bol. Asoc. méd. de Puerto-Rico, San Juan	Boletín de la Asociación médica de Puerto-Rico. San Juan
Bol. Dir. de salubridad pub., Lima	Boletín del Dirección de salubridad pública. Lima
Bol. Lab. munic., Guayaquil	Boletín de Laboratorio municipal. Guayaquil

Bol. de med. y cirug., Guayaquil	Boletín de medicina y cirugía. Guayaquil
Boll. d. clin.	Bollettino delle cliniche. Napoli; Milano
Boll. dell' emigraz., Roma	Bollettino dell' emigrazione. Roma
Boll. d. mus. di zool. (etc.) Genova	Bollettino dei musei di zoologia e anatomia comparata della r. Università di Genova. Genova
Boll. d. r. Accad. med. di Genova	Bollettino della r. Accademia medica di Genova. Genova
Boll. d. sc. med., Bologna	Bollettino delle scienze mediche di Bologna. Bologna
Boll. d. Soc. adriatica di sc. nat. in Trieste	Bollettino della Sociteà adriatica di scienze naturali in Trieste. Trieste
Boll. Soc. d'ig. di Palermo	Bollettino della Società d'igiene di Palermo. Palermo
Boll. d. Soc. Lancisiana d. osp. di Roma	Bollettino della Società Lancisiana degli ospedali di Roma. Roma
Boll. d. Soc. med. di Parma	Bollettino della Società medica di Parma. Parma
Boll. d. Soc. med.-chir. di Pavia, Milano	Bollettino della Società medico-chirurgica di Pavia. Milano
Boll. d. Soc. rom. per gli stud. zool., Roma	Bollettino della Società romana per gli studi zoologici. Roma.
Boll. d. Soc. zool. ital., Roma	Bollettino della Società zoologica italiana. Roma
Boston M. & S. J.	Boston Medical and Surgical Journal. Boston
Brazil-med., Rio de Jan.	Brazil-medico. Rio de Janeiro
Brit. Guiana M. Ann., Demerara	British Guiana Medical Annual and Hospital Reports. Demerara
Brit. M. J., Lond.	British Medical Journal. London
Brooklyn M. J.	Brooklyn Medical Journal. Brooklyn (N. Y.)
Budapesti orv. ujság	Buda pesti orvosi ujság. Budapest
Buffalo M. J.	Buffalo Medical Journal. Buffalo
Bull. Acad. de méd., Par.	Bulletin de l'Académie de médecine. Paris
Bull. Acad. roy. de méd. de Belg., Brux.	Bulletin de l'Académie royale de médecine de Belgique. Bruxelles
Bull. Atlanta M. Col.	Bulletin Atlanta Medical College. Atlanta (Ga.)
Bull. d. comitato med. cremonese, Cremona	Bullettino del comitato medico cremonese. Cremona
Bull. Entomol. Research, Lond.	Bulletin of Entomological Research. London
Bull. de l'Inst. Pasteur, Par.	Bulletin de l'Institut Pasteur. Paris
Bull. internat. Acad. d. sc. de Cracovie	Bulletin international de l'Académie des sciences de Cracovie: Comptes rendus des séances. Cracovie
Bull. Internat. Ass. M. Mus.	Bulletin of the International Association of Medical Museums. Washington; Ann Arbor
Bull. Internat. Labor off.	Bulletin of the International Labor Office. Basel; Jena
Bull. Kentucky M. Ass., Louisville	Bulletin Kentucky State Medical Association. Louisville (Ky)
Bull. méd., Par.	Bulletin médical. Paris
Bull. méd. de l'Algérie, Alger	Bulletin médical de l'Algérie. Alger
Bull. méd. du nord, Lille	Bulletin médical du nord. Lille
Bull. et mém. Soc. méd. d. hôp. de Par.	Bulletins et mémoires de la Société médicale des hôpitaux de Paris. Paris
Bull. et mém. Soc. de thérap., Par.	Bulletins et mémoires de la Société de thérapeutique. Paris
Bull. mens. d. Accad. di sc. nat. in Catania	Bullettino mensuale della Accademia di scienze naturali in Catania. Catania
Bull. de l'Office internat. d'hyg. pub., Par.	Bulletin de l'Office international d'hygiène publique. Paris
Bull. Pan-Am. Union, Wash.	Bulletin of the Pan-American Union. Washington (D. C.)
Bull. d. r. Accad. med. di Roma	Bullettino della reale Accademia medica di Roma. Roma

Bull. d. sc. pharmacol., Par.	Bulletin des sciences pharmacologiques: organe scientifique et professionel. Paris
Bull. d. schweiz. Gsndhtsamtes	Bulletin des schweizerischen Gesundheitsamtes
Bull. d. sedute d. Accad. Gioenia di sc. nat. in Catania	Bullettino delle sedute della Accademia Gioenia di scienze naturali in Catania. Catania
Bull. Soc. anat. de Par.	Bulletins de la Société anatomique de Paris. Paris
Bull. Soc. centr. de méd. vét., Par.	Bulletin de la Société centrale de médecine vétérinaire. Paris
Bull Soc. clin. de Par.	Bulletin de la Société clinique de Paris. Paris
Bull. Soc. de l'industrie miner., St-Étienne	Bulletin de la Société de l'industrie minérale. St-Étienne
Bull. d. Soc. Lancisiani d. osp. di Roma	Bullettino della Società Lancisiani degli ospedali di Roma. Roma
Bull. Soc. linnéenne de Normandie, Caen	Bulletin de la Société linnéenne de Normandie. Caen
Bull. Soc. méd. de Charleroi	Bulletin de la Société médicale de Charleroi. Chaleroi
Bull. Soc. méd. pub. et d'hyg. prof., Par.	Bulletin de la Société de médecine publique et d'hygiène professionelle. Paris
Bull. Soc. méd. de la Suisse romande, Lausanne	Bulletin de la Société médicale de la Suisse romande. Lausanne
Bull. Soc. nat. d'acclimatation de France, Par.	Bulletin de la Société naturelle d'acclimatation de France. Paris
Bull. Soc. d'ophtal. d'Égypte, Cairo	Bulletin de la Société d'ophtalmologie d'Égypte. Cairo
Bull. Soc. path. exot., Par.	Bulletin de la Société de pathologie exotique. Paris
Bull. Soc. de pédiat. de Par.	Bulletins de la Société de pédiatrie de Paris. Paris
Bull. Soc. zool. de France, Par.	Bulletin de la Société zoologique de France. Paris
Bull. St Louis Univ.	Bulletin of the University of St Louis. St Louis (Miss.)
Bull. U. S. Bur. Animal Indust., Wash.	Bulletin of the United States Bureau of Animal Industry. Washington
Bull. U. S. Hyg. Lab. Pub. Health Serv., Wash.	Bulletins of the Hygienic Laboratory, Public Health & Marine Hospital Service of the United States. Washington
Caducée, Par.	Caducée. Paris
Calif. M. & S. Reporter, Los Angeles	California Medical and Surgical Reporter. Los Angeles
Calif. State J. M., San Fran.	California State Journal of Medicine. San Francisco
Canad. M. Ass. J.	Canadian Medical Association Journal. Toronto; Montreal
Carolina M. J., Charlotte	Carolina Medical Journal. Charlotte (N. C.)
Casop. lék. česk., v. Praze	Časopis lékařův českých. v. Praze
Centralbl. f. allg. Gsndhtspflg., Bonn	Centralblatt für allgemeine Gesundheitspflege. Bonn
Centralbl. f. allg. Path. u. path. Anat., Jena	Centralblatt für allgemeine Pathologie und pathologische Anatomie. Jena
Centralbl. f. Bakteriol. (etc.) Jena	Centralblatt für Bakteriologie, Parasitenkunde und Infektionskrankheiten. Jena
Centralbl. f. innere Med., Leipz.	Centralblatt für innere Medicin. Leipzig
Centralbl. f. klin. Med., Leipz.	Centralblatt für klinische Medicin. Leipzig
Centralbl. f. d. med. Wissensch., Berl.	Centralblatt für die medizinischen Wissenschaften. Berlin
Centralbl. f. prak. Augenheilk., Leipz.	Centralblatt für praktische Augenheilkunde. Leipzig
Centre méd. et pharm., Gannat	Centre médical et pharmaceutique. Gannat
Cesalpino, Arezzo	Cesalpino. Arezzo
Ceylon Govt Gaz., Colombo	Ceylon Government Gazette. Colombo

Ceylon M. J., Colombo	Ceylon Medical Journal. Colombo
Charlotte (N. C.) M. J.	Charlotte Medical Journal. Charlotte (N. C.)
Chicago M. J. & Examiner	Chicago Medical Journal & Examiner. Chicago
Chicago M. Times	Chicago Medical Times. Chicago
China M. J., Shanghai	China Medical Journal. Shanghai.
China M. Miss. J., Shanghai	China Medical Missionary Journal. Shanghai
Circ. Trop. Dis., Manila	Circulars on Tropical Diseases. Manila
Clin. infant., Par.	Clinique infantile. Paris
Clin. J., Lond.	Clinical Journal. London
Clín. y lab., rev. quincen. de espec. méd., Zaragoza	Clínica y laboratorio: revista quincenal de especialidades médicas. Zaragoza
Clin. med. ital., Milano	Clinica medica italiana. Milano
Clin. mod., Firenze	Clinica moderna. Firenze
Clin. mod., riv., Pisa	Clinica moderna, rivista. Pisa
Clin. opht., Par.	Clinique ophtalmologique. Paris
Clinica ostet., Roma	Clinica ostetrica. Roma
Clin. vet., Milano	Clinica veterinaria. Milano
Clínica, Zaragoza	Clínica. Zaragoza
Clinique, Brux.	Clinique. Bruxelles
Collect Papers Austral. Inst. Trop. Med., Lond.	Collected Papers of the Australian Institute of Tropical Medicine. London
Collect. Papers Lister Inst. Prevent. Med., Lond.	Collected Papers of the Lister Institute of Preventive Medicine. London
Collez. ital. di lett. sulla med., Milano	Collezione italiana di letture sulla medicina. Milano
Colliery Engin., Scranton	Colliery Engineer. Scranton (Pa.)
Colliery Guardian, Lond.	Colliery Guardian. London
Colliery Guardian: Indian, Colon. & For. Supp., Lond.	Colliery Guardian: Indian, Colonial & Foreign Supplement. London
Comment. d. Ateneo di Brescia.	Commentaria dell'Ateneo di Brescia. Brescia
Compt. rend. Acad. d. sc., Par.	Comptes rendus hebdomadaires des séances de l'Académie des sciences. Paris
Compt. rend. de l'Ass. franç. p. l'avanc. d. sc., Par.	Comptes-rendus de l'Association française pour l'avancement des sciences. Paris
Compt.-rend. Cong. franç. de méd.	Compte-rendu du Congrès français de médecine
Compt. rend. Soc. de biol., Par.	Comptes rendus hebdomadaires des séances et mémoires de la Société de biologie. Paris
Compt. rend. Soc. d. sc. méd. Gannat	Comptes rendus de la Société des sciences médicales de Gannat. Gannat
Concordia: Ztschr. d. Zentralst. f. Volkswohlf., Berl.	Concordia: Zeitschrift der Zentralstelle für Volkswohlfahrt. Berlin
Concours méd., Par.	Concours médical. Paris
Cong. franç. de méd.	Congrès français de médecine. Liége; Paris
Cor.-Bl. f. schweiz. Aerzte	Correspondenz-Blatt für schweizer Aerzte. Bern; Basel
Corresp. méd., Par.	Correspondant médical. Paris
Corriere san., Milano	Corriere sanitario. Milano
Corriere san. Bisettim., Milano	Corriere sanitario: Bisettimanale d'interessi professionale. Milano
Courrier méd., Par.	Courrier médical et la Réforme médicale. Paris
Cron. d. clin. med. di Genova	Cronaca della clinica medica di Genova. Genova
Crón. méd., Lima	Crónica médica. Lima
Crón. méd. mexicana, México	Crónica médica mexicana. México
Crón. méd.-quir. de la Habaña	Crónica médico-quirúrgica de la Habaña. Habana
Dementia Praecox Stud., Chic.	Dementia Praecox Studies. Chicago
Denver M. Times	Denver Medical Times. Denver
Deutsche Aerzte-Ztg, Berl.	Deutsche Aerzte-Zeitung. Berlin

Deutsche klin.-therap. Wchnschr., Leipz.	Deutsche klinisch-therapeutische Wochenschrift. Leipzig
Deutsche med. Presse, Berl.	Deutsche medicinische Presse. Berlin
Deutsche med. Wchnschr.	Deutsche medizinische Wochenschrift. Berlin; Leipzig
Deutsche mil.-ärztl. Ztschr., Berl.	Deutsche militär-ärztliche Zeitschrift. Berlin
Deutsche Vrtljschr. f. öff. Gsndhtspflg., Brnschwg	Deutsche Vierteljahrsschrift für öffentliche Gesundheitspflege. Braunschweig
Deutsche Ztschr. f. Thiermed., Leipz.	Deutsche Zeitschrift für Thiermedizin und vergleichende Pathologie. Leipzig
Deutsches Arch. f. klin. Med., Leipz.	Deutsches Archiv für klinische Medizin. Leipzig
Dublin J. M. Sc.	Dublin Journal of Medical Science. Dublin
Écho méd. du nord, Lille	Echo médical du nord. Lille
Écho vét., Liége	Echo vétérinaire. Liége
Eco cient., Ciego de Avila (Cuba)	Eco científico. Ciego de Avila (Cuba)
Edinb. M. J.	Edinburgh Medical Journal. Edinburgh
Edinb. M. & S. J.	Edinburgh Medical and Surgical Journal. Edinburgh
Elementary School J., Chic.	Elementary School Journal. Chicago
Engin. & Min. J., N. Y.	Engineering & Mining Journal. New York
Engineering, Lond.	Engineering. London
Escuela de med., Guatemala	Escuela de medecina. Guatemala
Folia hæmatol.	Folia hæmatologica. Berlin; Leipzig
Folia med., Napoli	Folia medica. Napoli
Folia serolog., Leipz.	Folia serologica. Leipzig
Folia urolog., Leipz.	Folia urologica. Leipzig
France méd., Par.	France médicale. Paris
Gac. méd. de Carácas,	Gaceta médica de Carácas. Carácas
Gac. méd. catal., Barcel.	Gaceta médica catalana. Barcelona
Gac. méd. catal., sec. esp., Bol. de clín. y terap., Barcel.	Gaceta médica catalana: seción especial, Boletín de clínica y terapéutica. Barcelona.
Gac. méd. de México	Gaceta médica de México. México
Gaillard's South. Med., Savannah	Gallard's Southern Medicine. Savannah (Ga.)
Gartenlaube, Leipz.	Gartenlaube. Leipzig
Gaz. clin., S. Paulo	Gazeta clinica. S. Paulo
Gaz. hebd. de méd., Par.	Gazette hebdomadaire de médecine et de chirurgie. Paris
Gaz. hebd. d. sc. méd. de Bordeaux	Gazette hebdomadaire des sciences médicales de Bordeaux. Bordeaux
Gaz. d. hôp., Par.	Gazette des hôpitaux civils et militaires. Paris
Gaz. d. hosp. do Pôrto	Gazeta dos hospitais do Pôrto. Pôrto
Gaz. med. da Bahia	Gazeta medica da Bahia Bahia
Gaz. méd. belge, Brux.	Gazette médicale belge. Bruxelles
Gaz. méd. belge, Liége	Gazette médicale belge. Liége
Gaz. méd. de Liége	Gazette médicale de Liége. Liége
Gaz. méd. de Par.	Gazette médicale de Paris. Paris
Gaz. méd. de Picardie, Amiens	Gazette médicale de Picardie. Amiens
Gaz. d. prat., Lille	Gazette des praticiens. Lille
Gazz. internaz. di med., Napoli	Gazzetta internazionale di medicina. Napoli
Gazz. med. ital., Torino	Gazzetta medica italiana. Torino
Gazz. med. ital. prov. venete, Padova	Gazzetta medica italiana provincie venete. Padova
Gazz. med. lomb., Milano	Gazzetta medica lombarda. Milano
Gazz. med. d. Marche, Porto Civitanova	Gazzetta medica delle Marche. Porto Civitanova

Gazz. med. sicil., Catania	Gazzetta medica siciliana. Catania
Gazz. med. di Torino	Gazzetta medica di Torino. Torino
Gazz. d. osp., Milano	Gazzetta degli ospedali e delle cliniche. Milano
Gazz. piemontese	Gazzetta piemontese
Gazz. san., Catania	Gazzetta sanitaria. Catania
Gen. Pract., St Louis	General Practitioner. St Louis
Geneesk. Tijdschr. Nederl.-Indië, Batavia	Geneeskundig Tijdschrift voor Nederlandsch-Indië. Batavia
Georgia J. M. & S., Savannah	Georgia Journal of Medicine and Surgery. Savannah
Germany. Deutsch. Reichsanz., Berl.	Germany. Deutscher Reichsanzeiger. Berlin
Gior. di anat., fisiol. e patol. d. animali, Pisa	Giornale di anatomia, fisiologia e patologia degli animali. Pisa
Gior. d. Ass. napol. di med. e nat., Napoli	Giornale della Associazione napoletana di medici e naturalisti. Napoli
Gior. internaz. d. sc. med., Napoli	Giornale internazionale delle scienze mediche. Napoli
Gior. di med. mil.	Giornale di medicina militare. Torino; Firenze; Roma
Gior. med. d. r. esercito, Roma	Giornale medico del regio esercito. Roma
Gior. med. d. r. esercito (etc.) Roma	Giornale medico del r. esercito e della r. marina. Roma
Gior. d. r. Accad. di med. di Torino	Giornale della reale Accademia di medicina di Torino. Torino
Gior. d. r. Soc. ital. d'ig., Milano	Giornale della reale Società italiana d'igiene. Milano
Gior. d. Soc. fiorent. d'ig., Firenze	Giornale della Società fiorentina d'igiene. Firenze
Glasgow M. J.	Glasgow Medical Journal. Glasgow
Glückauf, Essen	Glückauf. Essen
Good Health, Battle Creek	Good Health. Battle Creek (Mich.)
Gulf States J. M. & S. (etc.) Mobile	Gulf States Journal of Medicine and Surgery and Mobile Medical and Surgical Journal. Mobile
Gyak. orvos, Budapest	Gyakorló orvos. Budapest
Handel. v. h. Nederl. nat.-en geneesk. cong., Haarlem	Handelingen van het Nederlandsch naturen geneeskundig congres. Haarlem
Hospital Corps Quart., Wash.	Hospital Corps Quarterly. Washington.
Hyg. Rundschau, Berl.	Hygienische Rundschau. Berlin
Hyg. de la viande (etc) Évreux	Hygiène de la viande et du lait. Évreux
Hygiène gén et appliq., Par.	Hygiène générale et appliquée. Paris
Igiene mod., Genova	Igiene moderna. Genova
Iji Shinbun, Tokyo	Iji Shinbun. Tokyo
Illinois M. J.	Illinois Medical Journal. Ottawa; Springfield; Chicago
Imparziale, Firenze	Imparziale. Firenze
Indian J. M. Research, Calcutta	Indian Journal of Medical Research. Calcutta
Indian J. M. Research, Special Indian Sc. Cong. no., Calcutta	Indian Journal of Medical Research, Special Indian Science Congress number. Calcutta
Indian Lancet, Calcutta	Indian Lancet. Calcutta
Indian M. Gaz., Calcutta	Indian Medical Gazette. Calcutta
Indian M. Rec., Calcutta	Indian Medical Record. Calcutta
Indian M.-Chir. Rev., Bombay	Indian Medico-Chirurgical Review. Bombay
Indian Pub. Health & Municip. J., Calcutta	Indian Public Health & Municipal Journal. Calcutta
Indiana M. J., Indpls.	Indiana Medical Journal. Indianapolis
Indipendente: gazz. med. di Torino	Indipendente: gazzetta medica di Torino. Torino
Ingegnere igien., Torino	Ingegnere igienista. Torino

Intercolon. M. J. Australas., Melbourne	Intercolonial Medical Journal of Australasia. Melbourne
Internat. Clin., Phil.	International Clinics. Philadelphia
Internat. klin. Rundschau, Wien	Internationales klinische Rundschau. Wien
Internat. M. Ann., N. Y.	International Medical Annual. New York
Internat. M. Mag., Phil.	International Medical Magazine. Philadelphia
Internat. M. & S. Survey, N. Y.	International Medical and Surgical Survey. New York
Internat. Monatschr. f. Anat. u. Physiol., Leipz.	International Monatsschrift für Anatomie und Physiologie. Leipzig
Interstate M. J., St Louis	Interstate Medical Journal. St Louis (Mo.)
Iron & Coal Trades Rev., Lond.	Iron & Coal Trades Review. London
Italy. Corpo delle miniere, Riv. d. serv. miniere, Roma	Italy. Corpo delle miniere, Rivista del servizio miniere. Roma
Italy. Ufficio del lavoro, Boll., Roma	Italy. Ufficio del lavoro, Bollettino. Roma
J. Agric. Research, Wash.	Journal of Agricultural Research. Washington (D. C.)
J. Am. Chem. Soc.	Journal of the American Chemical Society. New York; Easton (Pa.)
J. Am. M. Ass., Chicago	Journal of the American Medical Association. Chicago
J. Am. Vet. M. Ass.	Journal of the American Veterinary Medical Association. Ithaca (N. Y.); Chicago
J. Arkansas M. Soc., Little Rock	Journal of the Arkansas Medical Society. Little Rock
J. Ceylon Br. Brit. M. Ass., Colombo	Journal of the Ceylon Branch of the British Medical Association. Colombo
J. Chem., Metall. & Min. Soc. of So. Africa, Johannesb.	Journal of the Chemical, Metallurgical & Mining Societies of South Africa. Johannesburg
J. Comp. Path. & Therap., Edinb. & Lond.	Journal of Comparative Pathology and Therapeutics. Edinburgh & London
J. d. conn. méd. prat., Par.	Journal des connaissances médicales pratiques et de pharmacologie. Paris
J. Exper. M., N. Y.	Journal of Experimental Medicine. New York
J. Formosa M. Soc.	Journal of the Formosa Medical Society
J. Georgia M. Ass., Augusta	Journal of the Georgia Medical Association. Augusta
J. Hyg., Cambridge	Journal of Hygiene. Cambridge (England)
J. d'hyg., Par.	Journal d'hygiène. Paris
J. Infect. Dis., Chicago	Journal of Infectious Diseases. Chicago
J. Kansas M. Soc., Lawrence	Journal of the Kansas Medical Society. Lawrence
J. Lab. & Clin. M., St Louis	Journal of Laboratory and Clinical Medicine. St Louis
J. Lond. School Trop. M.	Journal of the London School of Tropical Medicine. London
J. Malay Br. Brit. M. Ass., Singapore	Journal of the Malay Branch of the British Medical Association. Singapore
J. Med. Ass. Georgia, Augusta	Journal of the Medical Association of Georgia. Augusta
J. de méd. de Bordeaux	Journal de médecine de Bordeaux. Bordeaux
J. méd. de Brux.	Journal médical de Bruxelles. Bruxelles
J. de méd., chir. et pharm., Brux.	Journal de médecine, de chirurgie et pharmacologie. Bruxelles
J. de méd. et chir. prat., Par.	Journal de médecine et de chirurgie pratiques. Paris
J. de méd. de Par.	Journal de médecine de Paris. Paris
J. de med. de Pernambuco	Jornal de medicina de Pernambuco. Pernambuco

J. Med. Research, Bost.	Journal of Medical Research. Boston
J. Med. Soc. N. Jersey, Newark	Journal of the Medical Society of New Jersey. Newark
J. Mississippi M. Ass., Biloxi	Journal of the Mississippi State Medical Association. Biloxi
J. Missouri M. Ass., St Louis	Journal of the Missouri State Medical Association. St Louis
J. N. Mexico M. Soc., Albuquerque	Journal of the New Mexico Medical Society. Albuquerque
J. Nat. M. Ass., Tuskegee	Journal of the National Medical Association. Tuskegee (Ala.)
J. Nerv. & Ment. Dis., N. Y.	Journal of Nervous and Mental Diseases. New York
J. Parasitol., Urbana	Journal of Parasitology. Urbana (Ill.)
J. Path. & Bacteriol.	Journal of Pathology and Bacteriology. Edinburgh; London
J. Pharmacol. & Exper. Therap., Balt.	Journal of Pharmacology and Experimental Therapeutics. Baltimore
J. Phil. Is. M. Ass., Manila	Journal of the Philippine Islands Medical Association. Manila
J. de physiol. et de path. gén., Par.	Journal de physiologie et de pathologie générale. Paris
J. Quekett Micr. Club, Lond.	Journal of the Quekett Microscopical Club. London
J. Roy. Army Med. Corps, Lond.	Journal of the Royal Army Medical Corps. London
J. Roy. Nav. M. Serv., Lond.	Journal of the Royal Naval Medical Service. London
J. Roy. San. Inst., Lond.	Journal of the Royal Sanitary Institute. London
J. d. sc. méd. de Lille	Journal des sciences médicales de Lille. Lille
J. So. Carolina M. Ass., Greenville	Journal of the South Carolina Medical Association. Greenville
J. Sociol. Med., Easton	Journal of Sociologic Medicine. Easton (Pa.)
J. South. M. Ass., Shreveport	Journal of the Southern Medical Association. Shreveport (La.)
J. State Med., Lond.	Journal of State Medicine. London
J. Tenn. M. Ass., Nashville	Journal of the Tennessee State Medical Association. Nashville
J. de thérap., Par.	Journal de thérapeutique. Paris
J. Trop. M. (etc.) Lond.	Journal of Tropical Medicine. London
J. Trop. Vet. Sc., Calcutta	Journal of Tropical Veterinary Science. Calcutta
Jaarv. v. h. staatstoez. volksgezondh., 'sGravenh.	Jaarverslag van het Staatstoezicht op de volksgezondheid. 'sGravenhage
Jahrb. f. d. Berg-u. Hüttenwes. Königr. Sachsen, Freiburg	Jahrbuch für das Berg-und Hüttenwesen im Königreich Sachsen. Freiburg
Jahresb. ü. d. Leistung . . . d. gesamt. Med., Berl.	Jahresbericht über die Leistungen und Fortschritte der gesamten Medizin. Berlin
Jahresb. d. Ver. f. d. bergbaul. Interessen, Dortmund	Jahresbericht des Vereins für die bergbaulichen Interessen im Oberbergamtsberzirk in Dortmund.
Jahresb. d. Ver. f. Naturk. zu Zwickau, Leipz.	Jahresbericht des Vereins für Naturkunde zu Zwickau. Leipzig
Jamaica Gaz., Kingston	Jamaica Gazette. Kingston
Janus	Janus. Archives internationales pour l'histoire de la médecine et la géographic médicale. Amsterdam; Harlem; Leyde
Java. Centr. mil. geneesk. lab., Jaarversl., Batavia	Java. Centraal militair geneeskundig laboratorium. Jaarverslag. Batavia
Johns Hopkins Hosp. Bull., Balt.	Johns Hopkins Hospital Bulletin. Baltimore
Juventud méd., Guatemala	Juventud médica. Guatemala
Kentucky M. J.	Kentucky Medical Journal. Louisville; Bowling Green

Klin. Jahrb., Berl.	Klinisches Jahrbuch. Berlin
Klin. Monatsbl. f. Augenh.	Klinische Monatsblätter für Augenheilkunde. Erlangen; Rostock; Cassel; Stuttgart, etc.
Klin.-therap. Wchnschr., Wien & Berl.	Klinisch-therapeutische Wochenschrift. Wien & Berlin
Lancet, Lond.	Lancet. London
Lancet-Clinic, Cincin.	Lancet-Clinic. Cincinnati
Lavori d. Cong. di med. int.	Lavori dei Congressi di medicina interna. (Various places)
Lavori d. Ist. di clin. med. di Padova, Milano	Lavori dell' Istituto di clinica medica di Padova. Milano
Lavoro	Lavoro. Pavia; Milano
Loire méd., St-Étienne	Loire médicale. Saint-Étienne
London M. & Phys. J.	London Medical & Physical Journal. London.
Louisville Month. J. M. & S.	Louisville Monthly Journal of Medicine and Surgery. Louisville
Lyon méd.	Lyon médical. Lyon
Magy. orv. lapja, Budapest	Magyar orvosok lapja. Budapest
Malaria (etc.) Roma	Malaria e malattie dei paesi caldi. Roma
Malaria. Internat. Arch., Leipz.	Malaria. International Archives. Leipzig
Malariologia, Napoli	Malariologia. Napoli
Malaya M. J., Singapore	Malaya Medical Journal. Singapore
Marseille méd.	Marseille médical. Marseille
Maryland M. J., Balt.	Maryland Medical Journal. Baltimore
McClure's Mag., N. Y.	McClure's Magazine. New York
Med. d. assic. soc. infort. d. lavoro, Milano	Medicina delle assicurazioni sociali, infortuni del lavoro. Milano
Med. Bl., Wien	Medicinische Blätter. Wien
Med. Clin. Chic.	Medical Clinics of Chicago. Chicago
Med. contemp., Lisb.	Medicina contemporanea. Lisboa
Med. contemp., Milano	Medicina contemporanea. Milano
Med. Cor.-Bl. d. württemb. ärztl. Landesver., Stuttg.	Medicinisches Correspondenzblatt des württembergischen ärztlichen Landesvereins. Stuttgart
Med. Council, Phil.	Medical Council. Philadelphia
Med. Counselor	Medical Counselor. Chicago; Grand Rapids; Ann Arbor; Detroit
Med. Herald, St Joseph	Medical Herald. St Joseph (Mo.)
Méd. et hyg., Brux.	Médecine et hygiène. Bruxelles
Med. ital.	Medicina italiana. Napoli; Milano
Med. J. Australia, Sydney	Medical Journal of Australia. Sydney
Med. J. So. Africa, Johannesb.	Medical Journal of South Africa. Johannesburg
Med. Klin., Berl. & Wien	Medizinische Klinik. Berlin & Wien
Med. Missions in India, Pokhuria	Medical Missions in India. Pokhuria
Méd. mod., Par.	Médecine moderne. Paris
Med. News	Medical News. Philadelphia; New York
Med. de los niños, Barcel.	Medicina de los niños. Barcelona
Med. Officer, Lond.	Medical Officer. London
Méd. orient., Par.	Médecine orientale. Paris
Med. Press & Circ., Lond.	Medical Press and Circular. London
Med. Rec., N. Y.	Medical Record. New York
Med. Recorder, Shreveport	Medical Recorder. Shreveport (La.)
Med. Rev. of Rev., N. Y.	Medical Review of Reviews. New York
Med. Times & Hosp. Gaz., Lond.	Medical Times and Hospital Gazette. London
Med.-Chir. Centralbl., Wien	Medicinisch-chirurgisches Centralblatt. Wien
Med.-chir. Rundschau, Wien	Medicinisch-chirurgische Rundschau. Wien
Med.-Chir. Tr., Lond.	Medico-Chirurgical Transactions. London
Mededeel. v. d. Burgerl. Geneeskund Nederl.-Indië, Batavia	Mededeelingen van den Burgerlijken Geneeskundigen dienst in Nederlandsch-Indië. Batavia

Mededeel. u. h. Geneesk. lab. te Weltevreden, Batavia	Mededeelingen uit het Geneeskundig laboratorium te Weltevreden. Batavia
Mém. et compt.-rend. Soc. d. sc. méd. de Lyon	Mémoires et comptes-rendus de la Société des sciences médicales de Lyon. Lyon
Mem. Inst. Oswaldo Cruz, Rio de Jan.	Memorias do Instituto Oswaldo Cruz. Rio de Janeiro
Mem. r. Ist. Lomb. di sc. e lett., Cl. di sc. matemat. e nat., Milano	Memorie del reale Instituto Lombardo di scienze e lettere: Classe di lettere e scienze matematiche e naturali. Milano
Mem. r. Ist. Veneto di sc., lett. ed arti, Venezia	Memorie del reale Istituto Veneto di scienze, lettere ed arti. Venezia
Memphis M. Month.	Memphis Medical Monthly. Memphis (Tenn.)
Merck's Arch., N. Y.	Merck's Archives of the Materia Medica and its uses. New York
Mil. Surgeon	Military Surgeon. Carlisle (Pa.); Chicago; Washington (D. C.)
Mines & Minerals, Scranton	Mines & Minerals. Scranton (Pa.)
Min. J., Lond.	Mining Journal. London
Min. J. Railway & Com. Gaz., Lond.	Mining Journal, Railway & Commercial Gazette. London
Min. Mag., N. Y.	Mining Magazine. New York
Min. Report., Denver	Mining Reporter. Denver
Min. Sc., Denver	Mining Science. Denver
Min. & Scient. Press, San Fran.	Mining & Scientific Press. San Francisco
Min. World, Chic.	Mining World. Butte (Mont.); Chicago
Mississippi Educ. Adv., Jackson	Mississippi Educational Advance. Jackson
Mississippi M. Month., Meridian	Mississippi Medical Monthly. Meridian
Mississippi M. Rec., Vicksburg	Mississippi Medical Record. Vicksburg
Mitt. d. Gesellsch. f. inn. Med. u. Kinderh. in Wien	Mitteilungen der Gesellschaft für innere Medizin und Kinderheilkunde in Wien. Wien
Mitt. a. d. med. Fakult. d. k. Univ. zu Tokyo	Mitteilungen aus der medizinischen Fakultät der kaiserlichen Universität zu Tokyo. Tokyo
Mitt. d. Ver. d. Aerzte in Steiermark, Graz.	Mitteilungen des Vereines der Aerzte in Steiermark. Graz
Mitth. a. d. med. Fac. d. k.-jap. Univ., Tokyo	Mittheilungen aus der medicinischen Facultät der kaiserlich-japanischen Universität. Tokyo
Mitth. a. d. med. Fak. d. k. Univ. Kyushu Fukuoka	Mittheilungen aus der medizinischen Fakultät der Kaiserlichen Universität Kyushu Fukuoka. Kyushu Fukuoka (Japan)
Mitth. d. Ver. d. Aerzte in Nied.-Oesterr., Wien	Mittheilungen des Vereines der Aerzte in Nieder-Oesterreich. Wien
Mobile M. & S. J.	Mobile Medical and Surgical Journal. Mobile (Ala.)
Mod. Hosp., St Louis	Modern Hospital. St Louis
Mod. Med., Chic.	Modern Medicine. Chicago
Monatsbl. d. wissenschaftl. Club in Wien	Monatsblätter des wissenschaftlichen Club in Wien. Wien
Monatschr. f. prakt. Balneol., München	Monatsschrift für praktische Balneologie. München
Monatsh. f. prakt. Tierh., Stuttg.	Monatshefte für praktische Tierheilkunde. Stuttgart
Monitor de la farm. y de la terap., Madrid	Monitor de la farmacía y de la terapéutica; revista decenal, científico-profesional. Madrid
Montreal M. J.	Montreal Medical Journal. Montreal
Morgagni.	Morgagni. Napoli; Milano
Mouvement hyg., Brux.	Mouvement hygiénique. Bruxelles
München. med. Wchnschr.	Münchener medizinische Wochenschrift. München
N. Albany M. Herald	New Albany Medical Herald. New Albany (Ind.)

N. Mexico M. J., Las Vegas	New Mexico Medical Journal. Las Vegas (N. Mex.)
N. Orl. M. & S. J.	New Orleans Medical and Surgical Journal.
N. York M. J. (etc.)	New York Medical Journal. New York
Nashville J. M. & S.	Nashville Journal of Medicine and Surgery. Nashville
Nat. M. J. China, Shanghai	National Medical Journal of China. Shanghai
Naturw. Wchnschr., Berl.	Naturwissenschaftliche Wochenschrift. Berlin
Naturw. Wchnschr., Jena	Naturwissenschaftliche Wochenschrift. Jena
Nederl. Staatsbl., 'sGravenh.	Nederlands. Staatsblad. 'sGravenhage
Nederl. staatscourant, Versl. en rap., Amst.	Nederlandsche staatscourant, Verslagen en rapporten. Amsterdam
Nederl. Tijdschr. v. Geneesk., Amst.	Nederlandsch Tijdschrift voor Geneeskunde. Amsterdam
New East, Tokyo	New East. Tokyo
No. Am. J. Homœop., N. Y.	North American Journal of Homœopathy. New York
Norte Americano, N. Y.	Norte Americano. New York
North Siam News, Chiengmai	North Siam News. Chiengmai
Northwest. Lancet, St Paul	Northwestern Lancet. St Paul (Minn.)
Northwest Med., Seattle	Northwest Medicine. Seattle
Nuova riv. clin.-terap., Napoli	Nuova rivista clinico-terapeutica. Napoli
Occidental M. Times	Occidental Medical Times. Sacramento; San Francisco
Oesterr. San.-Wes., Wien	Oesterreichische Sanitätswesen. Wien
Oesterr. Vrtljschr f. Gsndhtspfl., Wien	Oesterreichische Vierteljahrsschrift für Gesundheitspflege. Wien
Oesterr. Ztschr. f. Berg-u. Hüttenwes., Wien	Oesterreichische Zeitschrift für Berg-und Hüttenwesen. Wien
Offic. Bull. Chic. M. Soc.	Official Bulletin, Chicago Medical Society. Chicago
Old Dominion J. M. & S., Richmond	Old Dominion Journal of Medicine and Surgery. Richmond
Old Penn, Week. Rev., Phil.	Old Penn, Weekly Review. Philadelphia
Ophth. Klin., Stuttg.	Ophthalmologische Klinik. Stuttgart
Ophth. Rec.	Ophthalmic Record. Nashville; Chicago
Orvosi hetil., Budapest	Orvosi hetilap. Budapest
Osp. maggiore, Milano	Ospedale maggiore. Milano
Osp. magg. Riv. scient.-prat. di Milano	Ospedale maggiore: Rivista scientifico-practica dell' Ospedale maggiore di Milano ed Istituti sanitari annessi. Milano
Osservatore: gazz. d. clin. di Torino	Osservatore: gazzetta delle cliniche di Torino. Torino
Pacific M. J., San. Fran.	Pacific Medical Journal. San Francisco
Pammatone, Genova	Pammatone: periodico mensile degli spedali civili di Genova. Genova.
Papers Am. Soc. Trop. M.	Papers of the American Society of Tropical Medicine. (Various places)
Paraná med., Coritiba	Paraná medecina. Coritiba
Parasitology, Cambridge	Parasitology. Cambridge (England)
Pathologica, Genova	Pathologica; rivista quindicinale. Genova
Pediatria, Napoli	Pediatria. Napoli
Pediatrics, N. Y. & Lond.	Pediatrics. New York & London
Penn. M. J.	Pennsylvania Medical Journal. Pittsburg; Athens
Pensiero med., Milano	Pensiero medico. Milano
Pest. med.-chir. Presse, Budapest	Pester medizinisch-chirurgische Presse. Budapest
Pharm. Centralhalle	Pharmaceutische Centralhalle für Deutschland. Berlin; Dresden
Pharmacol. & Exper. Therap., Balt.	Pharmacological & Experimental Therapeutics. Baltimore

Phil. M. J.	Philadelphia Medical Journal. Philadelphia
Phil. M. Museum	Philadelphia Medical Museum. Philadelphia
Philippine Agric. Rev., Manila	Philippine Agricultural Review. Manila
Philippine J. Sc., Manila	Philippine Journal of Science. Manila
Physician & Surg.	Physician and Surgeon. Ann Arbor; Detroit
Planter, Kuala Lumpur	Planter (The) Kuala Lumpur
Planters' Chron., Coimbatora	Planters' Chronicle. Coimbatora
Planting Gaz., Colombo	Planting Gazette. Colombo (Ceylon)
Policlin., Brux.	Policlinique. Bruxelles
Policlin., Roma	Policlinico. Roma
Policlin., Torino	Policlinico. Torino
Post-Graduate, N. Y.	Post-Graduate. New York
Prag. med. Wchnschr.	Prager medizinische Wochenschrift. Prag
Pratico, Firenze	Pratico. Firenze
Prensa méd. argent., Buenos Aires	Prensa médica argentina. Buenos Aires
Presse méd., Par.	Presse médicale. Paris
Presse méd. belge, Brux.	Presse médicale belge. Bruxelles
Proc. Agric. Soc. Trinidad & Tobago, Trinidad	Proceedings of the Agricultural Society of Trinidad & Tobago. Trinidad
Proc. All-India San. Conf.	Proceedings of the All-India Sanitary Conference (issued as supp. to Indian J. M. Research)
Proc. Alumni Ass. Med. School, Univ. Oregon, Eugene	Proceedings of the Alumni Association Medical School, University of Oregon. Eugene
Proc. Brit. Ass. Adv. Sc.	Proceedings of the British Association for the Advancement of Science. (Various places)
Proc. Canal Zone M. Ass., Mount Hope	Proceedings of the Canal Zone Medical Association. Mount Hope
Proc. Chem., Metall. & Min. Soc. of So. Africa, Johannesb.	Proceedings of the Chemical, Metallurgical & Mining Society of South Africa. Johannesburg
Proc. Liverp. Biol. Soc.	Proceedings and Transactions of the Liverpool Biological Society. Liverpool
Proc. Med. Ass. Isthmian Canal Zone, Mount Hope	Proceedings of the Medical Association of the Isthmian Canal Zone. Mount Hope
Proc. Nat. Conf. Race Betterment, Battle Creek	Proceedings of the National Conference on Race Betterment. Battle Creek (Mich.)
Proc. Orleans Parish M. Soc., N. Orl.	Proceedings of the Orleans Parish Medical Society. New Orleans
Proc. Pan-Am. Scient. Cong.	Proceedings of the Pan-American Scientific Congress. (Various places)
Proc. Path. Soc. Phil.	Proceedings of the Pathological Society of Philadelphia. Philadelphia
Proc. Roy. Soc. Med., Lond.	Proceedings of the Royal Society of Medicine. London
Proc. Roy. Soc. Queensland, Brisbane	Proceedings of the Royal Society of Queensland. Brisbane
Progrès méd., Par.	Progrès médical. Paris
Progrès méd. belge, Brux.	Progrès médical belge. Bruxelles
Progresso italo-amer., N. Y.	Progresso italo-americano. New York (daily newspaper)
Progresso med., Torino	Progresso medico. Torino
Province méd., Lyon	Province médicale. Lyon
Przeglad lekarski, Krakow	Przeglad lekarski; organ Towarzystwa Lekarskiego Krakowskiego. . . Krakow
Pub. Health Bull., Wash.	Public Health Bulletin. Washington
Pub. Health Nurse, Cleveland	Public Health Nurse. Cleveland
Pub. Health Rept U. S. Mar. Hosp. Serv., Wash.	Public Health Reports, United States Marine Hospital Service. Washington

Pub. Lab. Jefferson Med. Coll. Hosp., Phil.	Publications from the Laboratories of the Jefferson Medical College Hospital. Philadelphia
Quart. Am. Chamber of Commerce for Brazil, Rio de Jan.	Quarterly of the American Chamber of Commerce for Brazil. Rio de Janeiro
Quart. Bull. Northwest. Univ. Med. Sch., Chic.	Quarterly Bulletin of the Northwestern University Medical School. Chicago
Queensland Gov. Gaz., Brisbane	Queensland Government Gazette. Brisbane
Raccoglitore med., Forlì	Raccoglitore medico. Forlì
Railway Surg. J., Chic.	Railway Surgical Journal. Chicago
Ramazzini, Firenze	Ramazzini. Firenze
Rassegna internaz. d. med. mod., Catania	Rassegna internazionale della medicina moderna. Catania
Rassegna miner., metall. e chim., Torino	Rassegna mineraria, metallurgica e chimica. Torino
Rassegna d'ostet. e ginec., Napoli	Rassegna d'ostetricia e ginecologia. Napoli
Rassegna d. sc. med., Modena	Rassegna di scienze mediche. Modena
Recueil de méd. vét., Par.	Recueil de médecine vétérinaire. Paris
Reforma méd., Lima	Reforma médica. Lima
Reichs-Med.-Kal. f. Deutschl.	Reichs-Medicinal-Kalendar für Deutschland. Berlin; Leipzig
Rendic. d. r. Ist. Lomb. di sc. e lett., Milano	Rendiconti del reale Istituto Lombardo di scienze e lettere. Milano
Repert. de med. y cirug., Bogotá	Repertorio de medicina y cirugía. Bogotá
Rept Am. Pub. Health Ass.	Report & Papers of the American Public Health Association. (Various places)
Rept Australas. Ass. Adv. Sc.	Report of the Australasian Association for the Advancement of Science. (Various places)
Rept Brit. Ass. Adv. Sc.	Report of the British Association for the Advancement of Science. (Various places)
Rept Govt Bur. Microbiol. New South Wales	Report of the Government Bureau of Microbiology of New South Wales
Rept Johns Hopkins Hosp., Balt.	Report of the Johns Hopkins Hospital. Baltimore
Rept N. York State Vet. Coll., Cornell Univ., Albany	Report of New York State Veterinary College at Cornell University. Albany
Rept Thompson-Yates Lab., Liverp.	Report of the Thompson-Yates Laboratory. Liverpool
Rept Wellcome Research Lab., Khartoum	Report of the Wellcome Research Laboratories at the Gordon Memorial College, Khartoum. Khartoum
Repts & Collect. Stud. Inst. Trop. M. & Hyg. Porto Rico, San Juan	Reports & Collected Studies of the Institute of Tropical Medicine & Hygiene of Porto Rico. San Juan
Repts & Papers Am. Pub. Health Ass.	Reports & Papers of the American Public Health Association. (Various places)
Rev. Agrícola, Bogotá	Revista Agrícola. Bogotá
Rev. Asoc. méd. argent., Buenos Aires	Revista de la Asociación médica argentina. Buenos Aires
Rev. d. centro estud. de med., Buenos Aires	Revista del centro estudiantes de medicina. Buenos Aires
Rev. clín., Medellin	Revista clínica. Medellin (Colombia)
Rev. ecón., Tegucigalpa.	Revista ecónomica. Tegucigalpa (Honduras)
Rev. de espec. méd., Madrid	Revista de especialidades médicas. Madrid
Rev. Filipina de med. y farm., Manila	Revista Filipina de medicina y farmacía. Manila
Rev. gén. de clin. et de thérap., Par.	Revue générale de clinique et de thérapeutique. Paris

Rev. gén. d. sc. pures et appliq., Par.	Revue générale des sciences pures et appliquées. Paris
Rev. de hig. y de tuberc., Valencia	Revista de higiene y de tuberculosis. Valencia
Rev. d. hosp., México	Revista de hospitale. México
Rev. d'hyg., Par.	Revue d'hygiène et de police sanitaire. Paris
Rev. Ibero-Am. de cien. méd., Madrid	Revista Ibero-Americana de ciencias médicas. Madrid
Rev. indust., Par.	Revue industrielle. Paris
Rev. internat. de la Croix-Rouge, Genève.	Revue international de la Croix-Rouge. Genève.
Rev. de méd., Par.	Revue de médecine. Paris
Rev. méd., Puebla	Revista médica. Puebla
Rev. med., Rio de Janeiro	Revista medica. Rio de Janeiro
Rev. méd. de Bogotá	Revista médica de Bogotá. Bogotá
Rev. de med. y cirug. práct., Madrid	Revista de medicina y cirugía prácticas. Madrid
Rev. de med. y ciruj., Carácas	Revista de medicina y cirujía. Carácas
Rev. méd. cubana, Habana	Revista médica cubana. Habana
Rev. méd. españ. y bol. de hig. y salub., Madrid	Revista médica española y boletín de higiene y salubridad. Madrid
Rev. méd. de l'est	Revue médicale de l'est. Nancy; Paris
Rev. de méd. et d'hyg. trop., Par.	Revue de médecine et d'hygiène tropicales. Paris
Rev. med. de S. Paulo	Revista medica de S. Paulo. S. Paulo
Rev. méd. de la Suisse rom., Genève	Revue médicale de la Suisse romande. Genève
Rev. de med. trop., Habana	Revista de medicina tropical. Habana
Rev. med.-cirurg. do Brazil, Rio de Jan.	Revista medico-cirurgica do Brazil. Rio de Janeiro
Rev. méd.-quirúrg., Tegucigalpa	Revista médico-quirúrgica. Tegucigalpa
Rev. mens. d. mal. de l'enf., Par.	Revue mensuelle des maladies de l'enfance. Paris
Rev. miner., metal. y de ingen., Madrid	Revista minera, metalúrgica y de ingenieria. Madrid
Rev. d. sc. méd., Par.	Revue des sciences médicales en France et à l'étranger. Paris
Rev. scient., Par.	Revue scientifique de la France et de l'étranger. Paris
Rev. de thérap. méd.-chir., Par.	Revue de thérapeutique médico-chirurgicale. Paris
Rev. univ. d. mines, de la métall., Par.	Revue universelle des mines, de la métallurgie, des travaux publics, des sciences et des arts. Paris
Rev. vét., Toulouse	Revue vétérinaire. Toulouse
Rev. War S. & M., Wash.	Review of War Surgery & Medicine. Washington
Rhode Island M. J., Providence	Rhode Island Medical Journal. Providence
Riforma med.	Riforma medica. Napoli; Roma
Risveglio med., Pescara	Risveglio medico. Pescara
Riv. d. benefic. pubbl. d. ist. di previd., Roma	Rivista della beneficenza pubblica delle istituzioni di previdenza e di igiene sociale. Roma
Riv. clin., Bologna	Rivista clinica. Bologna
Riv. clin., Milano	Rivista clinica. Milano
Riv. di clin. pediat., Firenze	Rivista di clinica pediatrica. Firenze
Riv. clin. e terap., Napoli	Rivista clinica e terapeutica. Napoli
Riv. crit. di clin. med., Firenze	Rivista critica di clinica medica. Firenze
Riv. gen. ital. di clin. med., Pisa	Rivista generale italiana di clinica medica. Pisa
Riv. d'ig. e san. pubb.	Rivista d'igiene e sanità pubblica. Roma; Torino
Riv. internaz. d'ig., Napoli	Rivista internazionale d'igiene. Napoli
Riv. internaz. di med. e chir., Milano	Rivista internazionale di medicina e chirurgia. Milano

Riv. ital. di terap. ed ig., Piacenza	Rivista italiana di terapia ed igiene. Piacenza
Riv. med., Milano	Rivista medica. Milano
Riv. osp., Roma	Rivista ospedaliera: giornale di medicina e chirurgia. Roma
Riv. di ostet. (etc.) Torino	Rivista di ostetricia, ginecologia e pediatria. Torino
Riv. veneta di sc. med., Venezia	Rivista veneta di scienze mediche. Venezia
Russ. med. Rundschau, Berl.	Russische medicinische Rundschau. Berlin
Russk. Vrach, S.-Peterb.	Russkiy Vrach. S.-Peterburg
Salute: Ital. med., Genova	Salute: Italia medica. Genova
Salute pubb., Perugia	Salute pubblica. Perugia
Samml. klin. Vortr., Leipz.	Sammlung klinischer Vorträge. Leipzig
Sampson Co. School Rec., Clinton	Sampson County School Record. Clinton (N. C.)
San. y benefic., Habana	Sanidad y beneficencia: Boletin oficial de la Secretaría. Habana
Sborn. klin., v Praze	Sbornik Klinický. v Praze
Scalpel, Liége	Scalpel. Liége
Schmidt's Jahrb.	Schmidt's Jahrbücher der in-und ausländischen gesammten Medizin. Leipzig; Bonn
Schweiz. Bl. f. Gsndhtspflg., Zürich	Schweizerische Blätter für Gesundheitspflege. Zürich
Science, N. Y. & Lancaster	Science. New York & Lancaster (Pa.)
Scient. Am., N. Y.	Scientific American. New York
Scient. Am. Suppl., N. Y.	Scientific American Supplement. New York
Scient. Month., N. Y.	Scientific Monthly. New York
Scuola salernit., Salerno	Scuola salernitana. Salerno
Sei-I-Kwai Med. J., Tokyo	Sei-I-Kwai Medical Journal. Tokyo
Semaine méd., Par.	Semaine médicale. Paris
Semana ilus., Tegucigalpa	Semana ilustrada. Tegucigalpa (Honduras)
Semana méd., Buenos Aires	Semana médica. Buenos Aires
Settimana med. d. Sperimentale, Firenze	Settimana medica dello Sperimentale. Firenze
Siglo méd., Madrid	Siglo médico. Madrid
Sitzungsb. d. niederrhein. Gesellsch. f. Natur-u. Heilk., Bonn	Sitzungsberichte der niederrheinische Gesellschaft für Natur-und Heilkunde. Bonn
Sitzungsb. d. phys.-med. Gesellsch. zu Würzb.	Sitzungsberichte der physikal.-medicinischen Gesellschaft zu Würzburg. Würzburg
So. African M. J., Cape Town	South African Medical Journal. Cape Town
So. African M. Rec., Cape Town	South African Medical Record. Cape Town
So. African Min. J., Johannesb.	South African Mining Journal. Johannesburg
So. Atlantic Quart., Durham	South Atlantic Quarterly. Durham (N. C.)
Social Serv. Rev., Wash.	Social Service Review. Washington
South. Calif. Pract., Los Angeles	Southern California Practitioner. Los Angeles
South. M. J., Nashville	Southern Medical Journal. Nashville (Tenn.)
South. M. Repts, N. Orl.	Southern Medical Reports. New Orleans
South. Med. & Gaillard's M. J., Savannah	Southern Medicine and Gaillard's Medical Journal. Savannah
South. Pract., Nashville	Southern Practitioner. Nashville
Soziale Rundschau, Wien	Soziale Rundschau. Wien
Spallanzani, Roma	Spallanzani. Roma
Spallanzani: riv. di sc. med., Modena	Spallanzani: rivista di scienze mediche. Modena
Specialista mod., Milano	Specialista moderno. Milano
Sperimentale, Firenze	Sperimentale. Firenze
Spolia zeylanica, Colombo	Spolia zeylanica. Colombo
St Barth. Hosp. J., Lond.	St Bartholomew's Hospital Journal. London
St Louis M. Rev.	St Louis Medical Review. St Louis
St Petersb. med. Wchnschr.	St Petersburger medicinische Wochenschrift. St Petersburg

Strassb. med. Ztg.	Strassburger medizinische Zeitung. Strassburg
Stud. Lab. Trop. M. & Hyg., Tulane Univ. of Louisiana, N. Orl.	Studies from the Laboratory of Tropical Medicine & Hygiene, Tulane University of Louisiana. New Orleans
Stud. in Med., Univ. of Iowa, Iowa City	Studies in Medicine, University of Iowa. Iowa City
Stud. Zool. Lab. Univ. of Nebraska, Lincoln	Studies of the Zoological Laboratory, University of Nebraska. Lincoln
Supp. to the Royal Gaz., Suva	Supplement to the Royal Gazette. Suva (Fiji)
Survey, N. Y.	Survey. New York
Tagebl. d. Versamml. deutsch. Naturf. u. Aerzte in Heidelb.	Tageblatt der Versammlung deutscher Naturforscher und Aerzte in Heidelberg. Heidelberg
Texas M. J., Austin	Texas Medical Journal. Austin
Texas M. News	Texas Medical News. Austin; Dallas
Texas State J. M., Fort Worth	Texas State Journal of Medicine. Fort Worth
Therap. Gaz., Detroit	Therapeutic Gazette. Detroit
Therap. d.. Gegenw., Berl. u. Wien	Therapie der Gegenwart. Berlin und Wien
Therap. Monatsh., Berl.	Therapeutische Monatshefte. Berlin
Therap. Neuheiten, Leipz.	Therapeutische Neuheiten. Leipzig
Tijdschr. v. diergeneesk., Utrecht	Tijdschrift voor diergeneeskunde. Utrecht
Tijdschr. v. sociale hyg. (etc.) Zwolle	Tijdschrift voor sociale hygiene en hygienische bladen. Zwolle
Tijdschr. v. sociale hyg. en openb. gzndhdsreg., Zwolle	Tijdschrift van sociale hygiene en openbare gezonheidsregeling. Zwolle
Tokyo Iji-Shinshi	Tokyo Iji-Shinshi. (The Tokyo Medical Journal) Tokyo
Tommasi, Napoli	Tommasi. Napoli
Toulouse méd.	Toulouse médical. Toulouse
Tr. Am. Inst. Homœop., Phil.	Transactions of the American Institute of Homœopathy. Philadelphia
Tr. Am. M. Ass., Chic.	Transactions of the American Medical Association. Chicago
Tr. Am. Ophth. Soc.	Transactions of the American Ophthalmological Society. (Various places)
Tr. Am. Pediat. Soc.	Transactions of the American Pediatric Society. (Various places)
Tr. Am. Soc. Trop. M., N. Orl.	Transactions American Society of Tropical Medicine. New Orleans
Tr. Australas. M. Cong., Adelaide	Transactions of the Australasian Medical Congress. Adelaide
Tr. Bien. Cong. Far East. Ass. Trop. M.	Transactions of the Biennial Congress of the Far Eastern Association of Tropical Medicine. (Various places)
Tr. Brit. Guiana Br. Brit. M. Ass.	Transactions of the British Guiana Branch of the British Medical Association. (Issued as apx to Brit. Guiana M. Ann., Demerara)
Tr. Clin. Soc. Lond.	Transactions of the Clinical Society of London. London
Tr. Clin. Soc. Univ. Michigan, Ann Arbor	Transactions of the Clinical Society of the University of Michigan. Ann Arbor
Tr. Coll. Phys. Phil.	Transactions of the College of Physicians of Philadelphia. Philadelphia
Tr. Epidemiol. Soc. Lond.	Transactions of the Epidemiological Society of London. London
Tr. Indian M. Cong., Calcutta	Transactions of the Indian Medical Congress. Calcutta
Tr. Inst. Min. Engin., Newcastle-upon-Tyne	Transactions of the Institute of Mining Engineers. Newcastle-upon-Tyne

Tr. Intercolon. M. Cong. Australas.	Transactions of the Intercolonial Medical Congress of Australasia. (Various places)
Tr. Internat. Cong. Comp. Path.	Transactions of the International Congress on Comparative Pathology. (Various places)
Tr. Internat. Cong. Hydrol. & Climatol.	Transactions of the International Congress of Hydrology and Climatology. (Various places)
Tr. Internat. Cong. Hyg. & Demog.	Transactions of the International Congress on Hygiene & Demography. (Various places)
Tr. Internat. Cong. Indust. Dis.	Transactions of the International Congress on Industrial Diseases. (Various places)
Tr. Internat. Cong. Med.	Transactions of the International Congress of Medicine. (Various places)
Tr. Internat. Ophth. Cong.	Transactions of the International Ophthalmological Congress. (Various places)
Tr. Med. Ass. Alabama, Mobile	Transactions of the Medical Association of the State of Alabama. Mobile
Tr. Med. Ass. Georgia	Transactions of the Medical Association of Georgia. (Various places)
Tr. Med. Soc. Dist. Columb., Wash.	Transactions of the Medical Society of the District of Columbia. Washington
Tr. Min. Inst. of Scotland, Lond.	Transactions of the Mining Institute of Scotland. London
Tr. Min. Soc. Nova Scotia, Halifax	Transactions of the Mining Society of Nova Scotia. Halifax
Tr. Mississippi M. Ass.	Transactions of the Mississippi State Medical Association. (Various places)
Tr. Missouri M. Ass., St Louis	Transactions Missouri Medical Association. St Louis
Tr. North of Eng. Inst. Min. & Mechan. Engin., Newcastle-upon-Tyne	Transactions of the North of England Institute of Mining & Mechanical Engineers. Newcastle-upon-Tyne
Tr. Path. Soc. Lond.	Transactions of the Pathological Society of London. London
Tr. So. Carolina M. Ass., Greenville	Transactions of the South Carolina Medical Association. Greenville
Tr. So. Indian Br. Brit. M. Ass., Madras	Transactions of the South Indian Branch of the British Medical Association. Madras
Tr. Soc. Trop. M. & Hyg., Lond.	Transactions of the Society of Tropical Medicine & Hygiene. London
Tr. Texas M. Ass., Austin	Transactions of the Texas State Medical Association. Austin
Transvaal M. J., Johannesb.	Transvaal Medical Journal. Johannesburg
Tribuna med., Rio de Jan.	Tribuna medica. Rio de Janeiro
Trop. Dis. Bull., Lond.	Tropical Diseases Bulletin. London
U. S. Nav. M. Bull., Wash.	United States Naval Medical Bulletin. Washington
U. S. Pub. Health Rept, Wash.	United States Public Health Reports, U. S. Public Health Service. Washington
U. S. Pub. Health Serv., Repr., Wash.	United States Public Health Service. Reprint. Washington
Ungar. med. Presse, Budapest	Ungarische medizinische Presse. Budapest
Unión farm. d. El Salvador, San Salvador	Unión farmacéutica de El Salvador. San Salvador
Union méd., Par.	Union médicale. Paris
Union pharm., Par.	Union pharmaceutique. Paris
Univ. Penn. M. Bull., Phil.	University of Pennsylvania Medical Bulletin. Philadelphia
Untersuch. zur Naturl. des Mensch. u. der Thiere, Giessen	Untersuchungen zur Naturlehre des Menschen und der Thiere. Giessen
Vereinsbl. pfälz. Aerzte, Frankenthal	Vereinsblatt der pfälzischen Aerzte. Frankenthal

Verhandl. d. Gesellsch. Naturf. u. Aerzte, Leipz.	Verhandlungen der Gesellschaft deutscher Naturforscher und Aerzte. Leipzig
Verhandl. d. k. k. zool.-botan. Gesellsch. in Wien	Verhandlungen der k. k. zoologisch-botanische Gesellschaft in Wien. Wien
Verhandl. d. Kong. f. innere Med., Wiesb.	Verhandlungen des Kongresses für innere Medizin. Wiesbaden
Verhandl. d. phys.-med. Gesellsch. zu Würzb.	Verhandlungen der physikalisch-medicinischen Gesellschaft zu Würzburg. Würzburg
Verhandl. d. schweiz. natur. Gesellsch.	Verhandlungen der schweizerischen naturforschenden Gesellschaft. Basel; Aarau
Verhandl. d. Ver. f. innere Med. zu Berl.	Verhandlungen des Vereins für innere Medicin zu Berlin. Berlin
Veröffentl. d. k. Gsndhtsamts, Berl.	Veröffentlichungen des kaiserlichen Gesundheitsamts. Berlin
Vet. J. & Ann. Comp. Path., Lond.	Veterinary Journal and Annals of Comparative Pathology. London
Vet. Mag., Phil.	Veterinary Magazine. Philadelphia
Veterinarian, Lond.	Veterinarian. London
Veterinario, Milano	Veterinario. Milano
Virchow's Arch. f. path. Anat. (etc.) Berl.	Virchow's Archiv für pathologische Anatomie und Physiologie und für klinische Medicin. Berlin
Virginia M. Semi-Month., Richmond	Virginia Medical Semi-Monthly. Richmond
Vrach. S.-Peterb.	Vrach. S.-Peterburg
Vrtljschr. f. gerichtl. Med., Berl.	Vierteljahresschrift für gerichtliche Medicin und öffentliches Sanitätswesen. Berlin
Wash. M. Ann.	Washington Medical Annals. Washington (D. C.)
Week. Bull. N. York City Dept Health	Weekly Bulletin of the New York City Department of Health. New York
West Virg. M. J., Wheeling	West Virginia Medical Journal. Wheeling (W. Va.)
Wien. klin. Rundschau	Wiener klinische Rundschau. Wien
Wien. klin. Wchnschr.	Wiener klinische Wochenschrift. Wien
Wien. klin.-therap. Wchnschr.	Wiener klinisch-therapeutische Wochenschrift. Wien
Wien. med. Bl.	Wiener medizinische Blätter. Wien
Wien. med. Presse	Wiener medizinische Presse. Wien
Wien. med. Wchnschr.	Wiener medizinische Wochenschrift. Wien
Wisconsin M. J., Milwaukee	Wisconsin Medical Journal. Milwaukee
World's Work, Lond.	World's Work. London
Würtemb. med. Correspondenzbl.	Würtemburgische medezinische Correspondenzblatt. Würtemburg
Yearbook U. S. Dept of Agric., Wash.	Yearbook of the United States Department of Agriculture. Washington
Zentralbl. f. innere Med., Leipz.	Zentralblatt fur innere Medizin. Leipzig
Ztschr. f. Augenh., Berl.	Zeitschrift für Augenheilkunde. Berlin
Ztschr. f. d. Berg-Hütten-u. Salinenwes. preussisch. Staate, Berl.	Zeitschrift für das Berg-Hütten-und Salinenwesen im preussischen Staate. Berlin
Ztschr. f. Gewerbe-Hyg. (etc.) Wien	Zeitschrift für Gewerbe-Hygiene, Unfall-Verhütung und Arbeiter-Wohlfahrts-Einrichtungen. Wien
Ztschr. f. Heilk.	Zeitschrift für Heilkunde. Berlin; Wien
Ztschr. f. Hyg. u. Infectionskrankh., Leipz.	Zeitschrift für Hygiene und Infectionskrankheiten. Leipzig
Ztschr. f. Med.-Beamte, Berl.	Zeitschrift für Medicinalbeamte. Berlin
Ztschr. d. österr. Ingen. u. Architek.-Ver., Wien	Zeitschrift der österreichischer Ingenieur und Architekten-Verein. Wien
Ztschr. f. wissensch. Insektenbiol., Berl.	Zeitschrift fur wissenschaftliche Insektenbiologie. Berlin
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28 Oct'65 X
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Bibliography of hookworm disease..
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